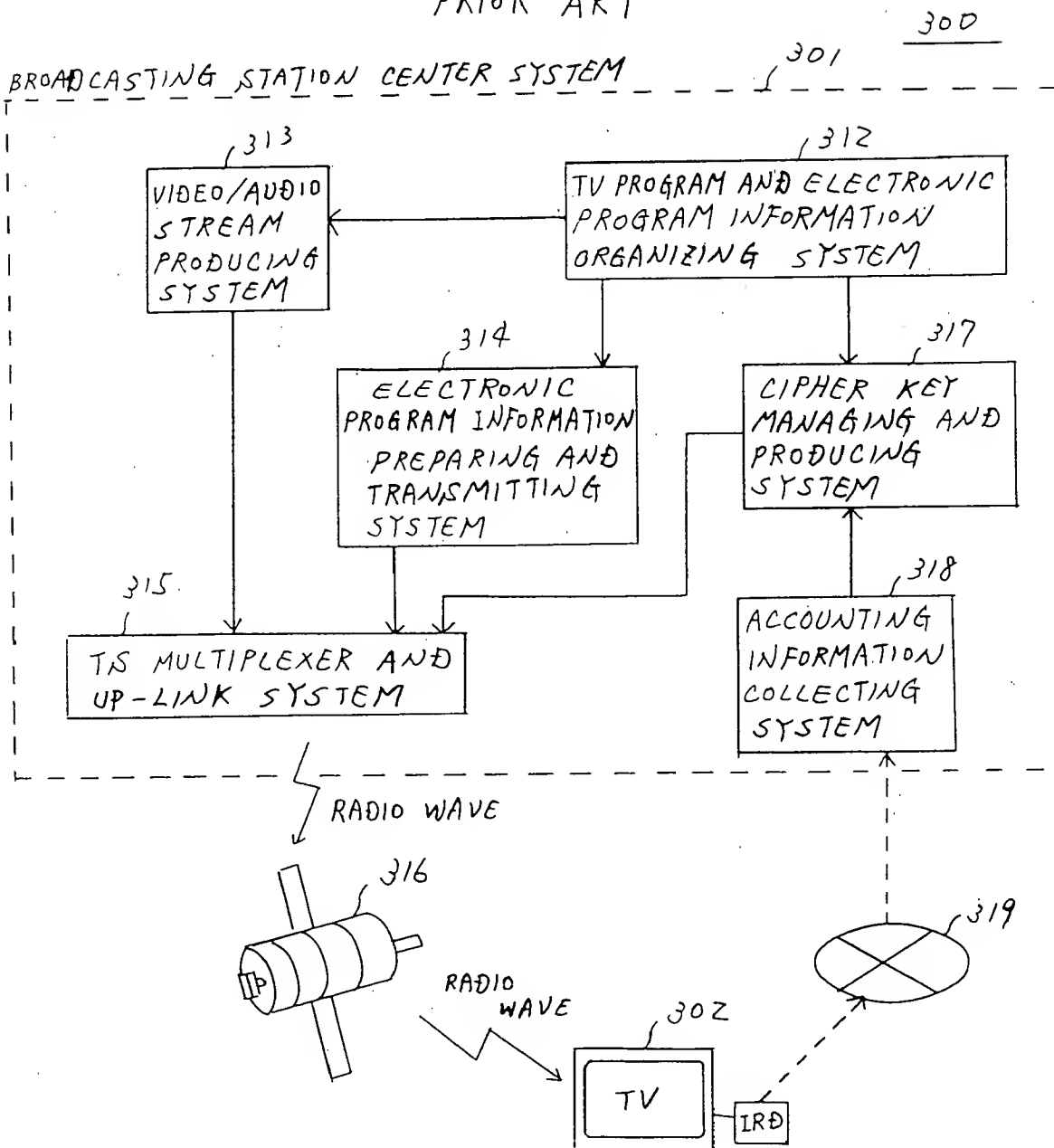


FIG. 1

PRIOR ART



10

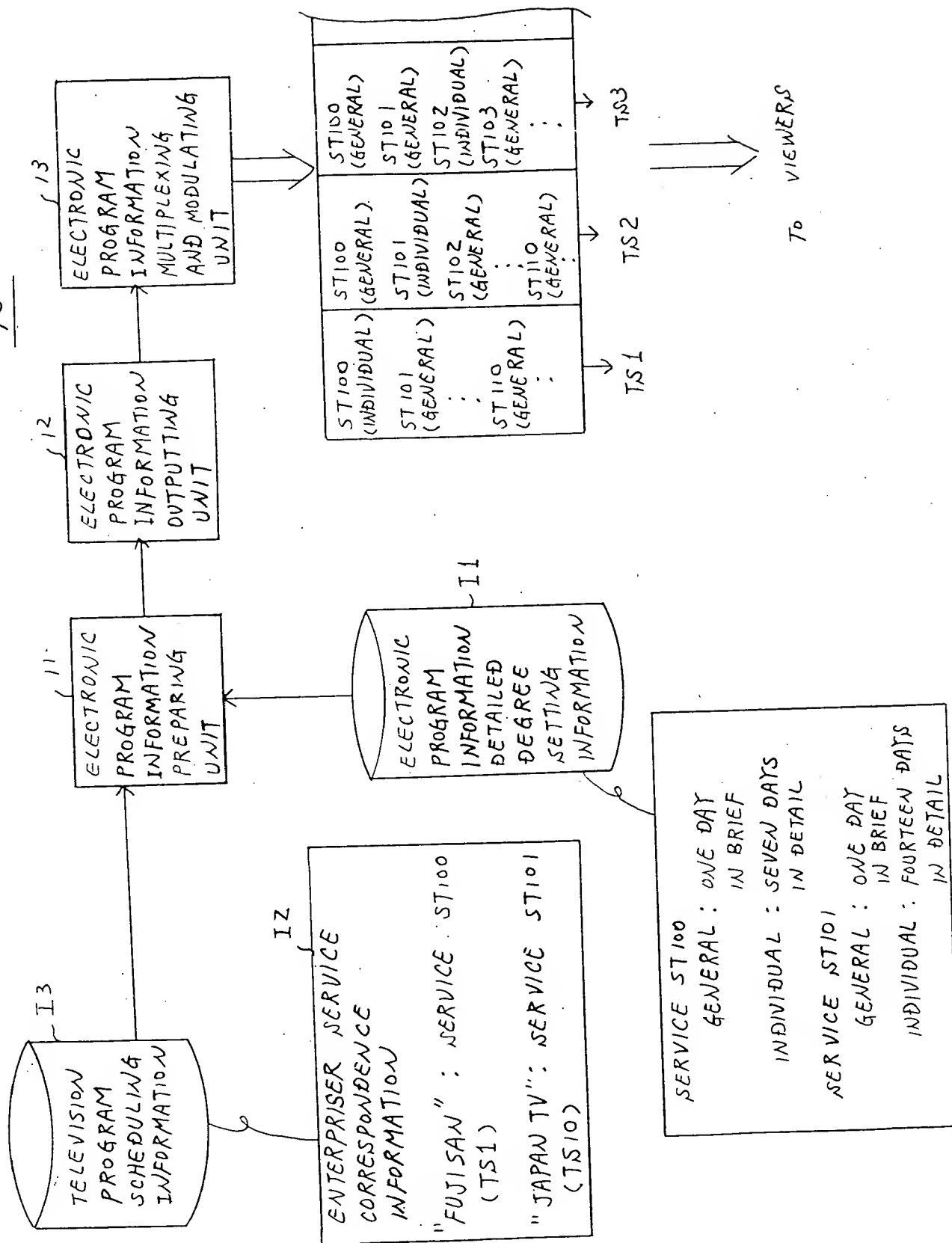


FIG. 3

SERVICE DESCRIPTION TABLE (SDT)  
INDIVIDUAL LEVEL

TS ID	TS 1
SERVICE ID	ST 100
SERVICE NAME	FUJISAN
SERVICE TYPE	SDTV
ENTERPRISER NAME	FUJISAN LTD.
LOCATION	PRE. SHIZUOKA

EVENT INFORMATION TABLE (EIT)  
INDIVIDUAL LEVEL

SERVICE ID	ST 100							
TS ID	TS 1							
EVENT ID	TP3	TP4	TP5	...	TP9	TP10	TP11	TP12
EVENT NAME								
BROADCASTING START DATE AND TIME	1/1 0:00	1/1 1:00	1/1 2:00	---	1/7 22:00	1/7 23:00	1/7 23:15	1/7 23:45
DURATION OF EVENT	60	60	30	---	60	15	30	15
CAST								
DIRECTOR								
LOCATION								
GENRE								
...								

"EVENT" DENOTES "TELEVISION PROGRAM"

FIG. 4

SERVICE DESCRIPTION TABLE (SDT)  
GENERAL LEVEL

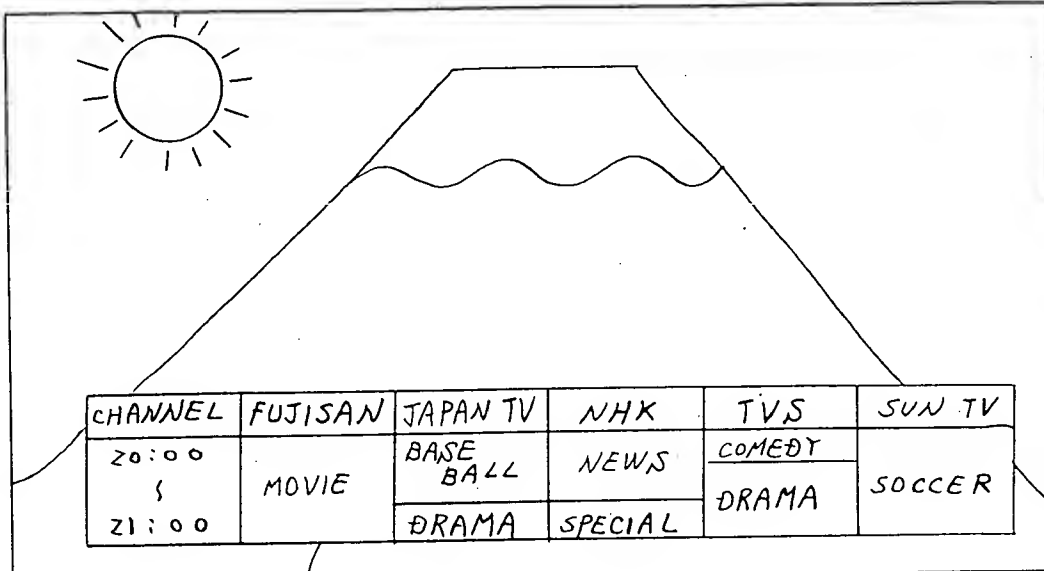
T/S ID	T/S 1
SERVICE ID	ST100
SERVICE NAME	FUJISAN
SERVICE TYPE	SDTV

EVENT INFORMATION TABLE (EIT)  
GENERAL LEVEL

SERVICE ID	ST100					
T/S ID	T/S 1					
EVENT ID	TP3	TP4	TP5	...	TP109	TP110
EVENT NAME						
BROADCASTING START DATE AND TIME	1/1 0:00	1/1 1:00	1/1 2:00	...	1/1 23:50	1/1 23:55
DURATION OF EVENT	60	60	30	...	5	5

FIG. 5

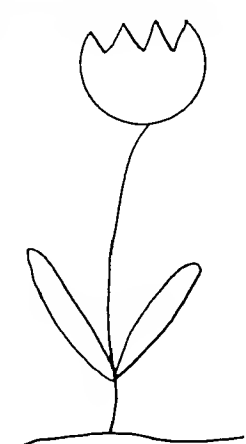
5/43



CHANNEL	FUJISAN	JAPAN TV	NHK	TVS	SUN TV
20:00	MOVIE	BASE BALL	NEWS	COMEDY	SOCCER
21:00		DRAMA	SPECIAL	DRAMA	

COMMON ELECTRONIC PROGRAM GUIDE

FIG. 6



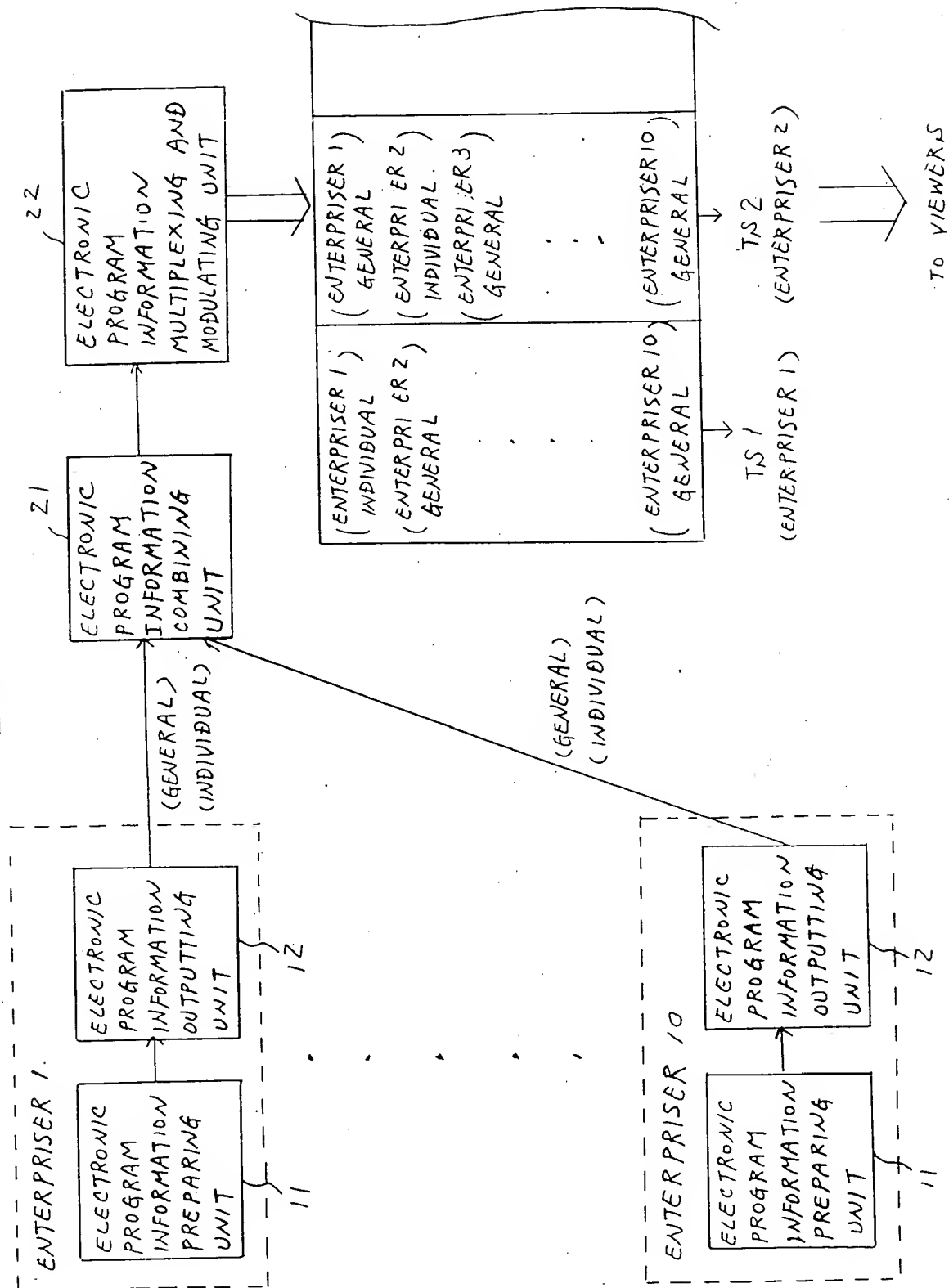
TVS PROGRAM GUIDE	
12/1	
12/2	
⋮	
⋮	
⋮	
<u>SPECIAL PROGRAM</u> (TVS)	
① WORLD-CUP SOCCER	
⋮	
⋮	
⋮	

INDIVIDUAL ELECTRONIC PROGRAM GUIDE

SECRET

FIG. 7

20



SECRET  
Fig. 8

30

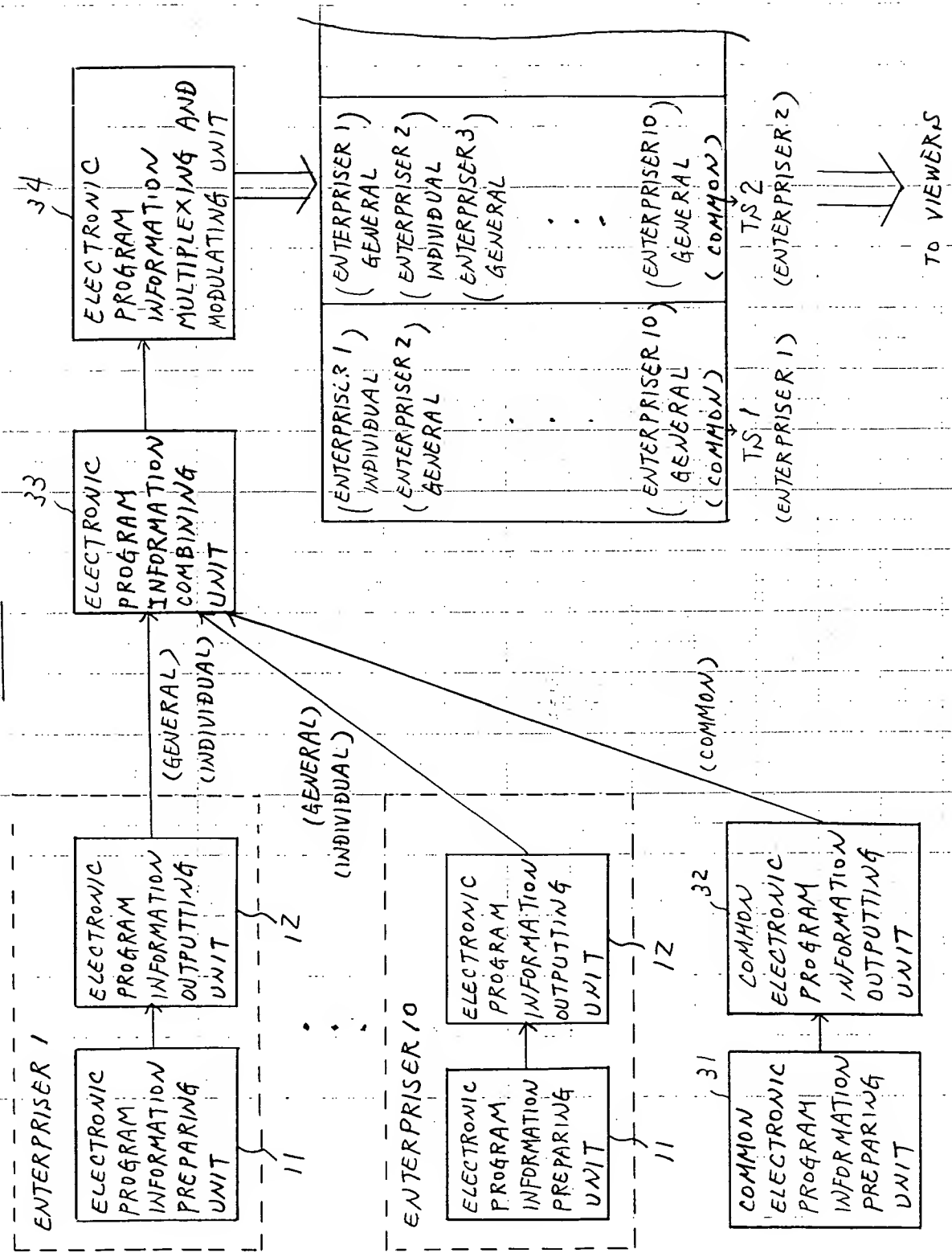


FIG. 9

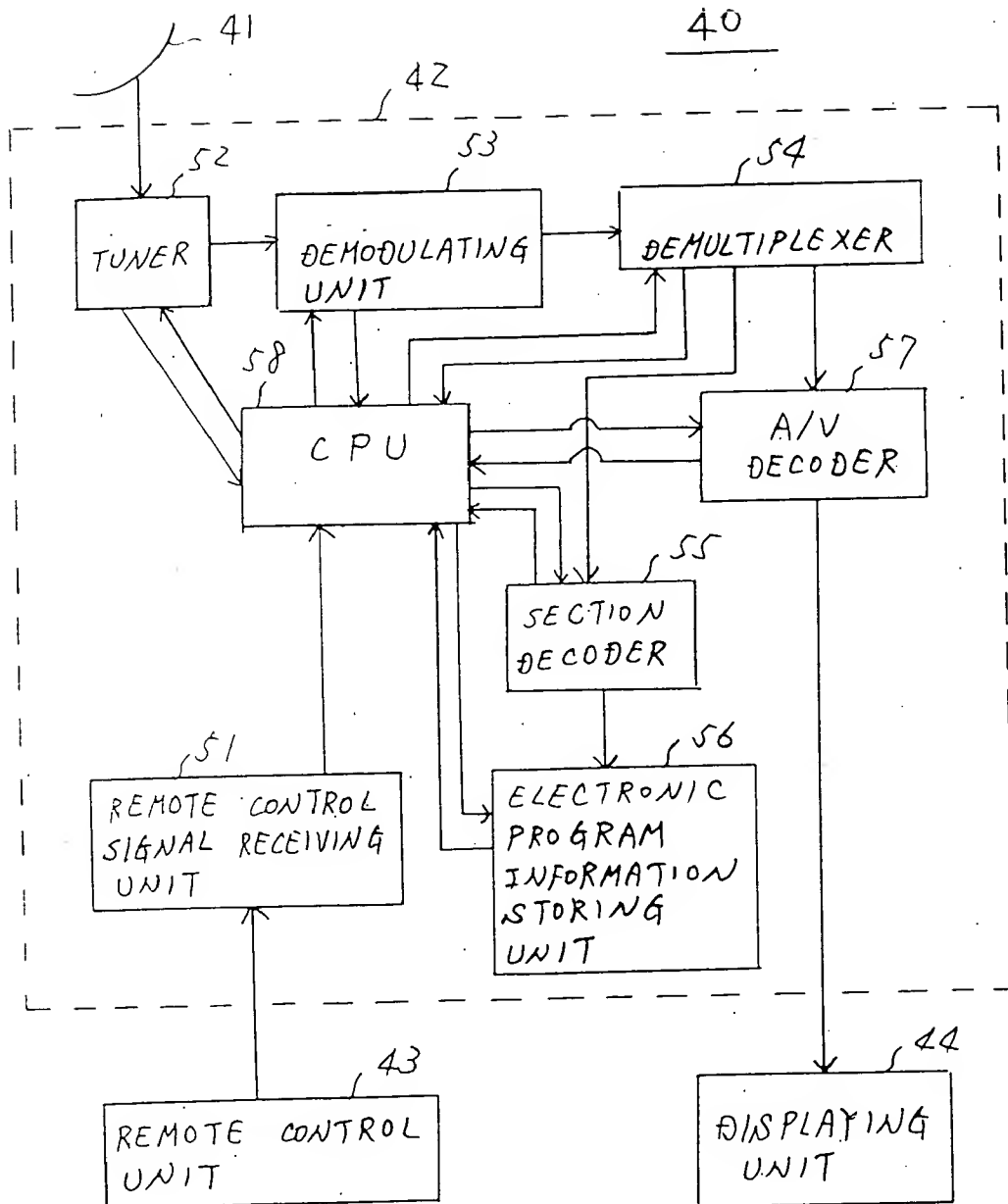




FIG. 10

BOUQUET ASSOCIATION TABLE (BAT)

BOUQUET ID	B5		
BOUQUET NAME	Sb1		
TS ID	TS20		
SERVICE ID	ST1	ST2	ST3

BOUQUET ID	B6					
BOUQUET NAME	Sb2					
TS ID	TS30			TS40		
SERVICE ID	ST4	ST5	ST6	ST7	ST8	ST9

NETWORK INFORMATION TABLE (NIT)

NETWORK ID	N5		
TS ID	TS20	TS30	TS40
TUNING INFORMATION	23.5	50.1	67.8

FIG. 11

PROGRAM ASSOCIATION TABLE (PAT)

PROGRAM No.	P1	P2	P3
PACKET ID of PMT	PK123	PK456	PK789

PROGRAM MAP TABLE (PMT)

PROGRAM No.	P2		
ES TYPE	VIDEO	AUDIO	AUDIO
PACKET ID of ES	PK122	PK455	PK788

FIG. 12

EVENT INFORMATION TABLE (EIT)

SERVICE ID	ST4				
TS ID	TS30				
EVENT ID	TP30	TP35	TP40	TP42	TP89
TITLE	MORNING WEATHER	CYCLING	MORNING NEWS	MORNING VEGETABLES	GET UP!
BROADCASTING START DATE AND TIME	'97 11/14 4:00	'97 11/14 5:00	'97 11/14 6:00	'97 11/14 7:00	'97 11/14 8:00
DURATION OF EVENT	60	60	60	60	60

SERVICE DESCRIPTION TABLE (SDT)

TS ID	TS30		
SERVICE ID	ST4	ST5	ST6
SERVICE NAME	MOVIE CHANNEL	CHILDREN TV	NEWS!
SERVICE TYPE	NVOD	DIGITAL TV	FM RADIO

TS ID	TS40		
SERVICE ID	ST7	ST8	ST9
SERVICE NAME	SPORTS TV	MADAM TV	COMIC TV
SERVICE TYPE	DIGITAL TV	DIGITAL TV	DIGITAL TV

FIG. 13

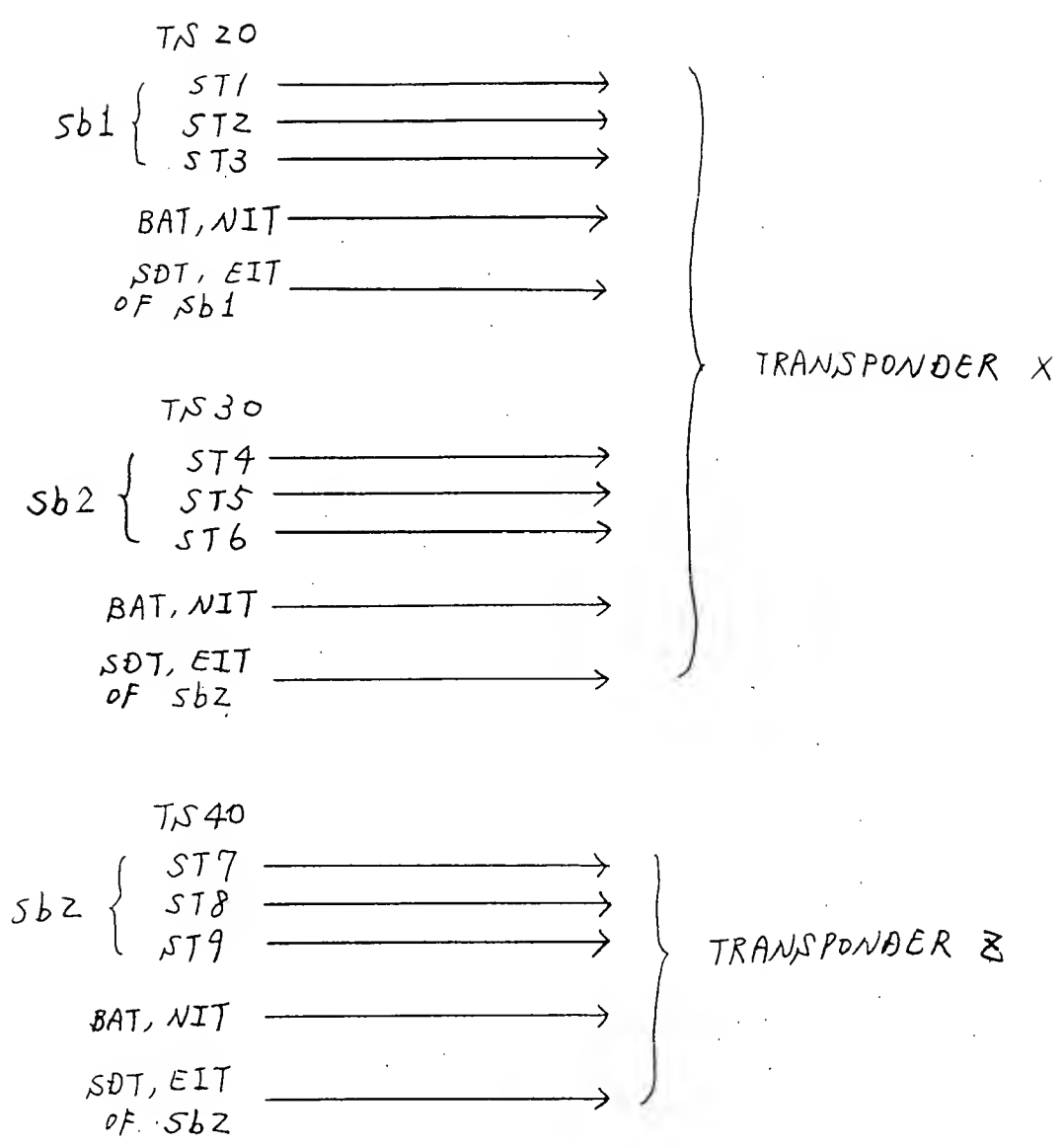


FIG. 14

INDIVIDUAL ELECTRONIC PROGRAM GUIDE

CHANNEL SERVICE ID	ST4	ST5	ST6	ST7	ST8	ST9
SERVICE NAME	MOVIE CHANNEL	CHILDREN TV	NEWS!	SPORTS TV	MADAM TV	COMIC TV
4:00	PR1	PR5	PR9	PR13	PR17	PR21
5:00	PR2	PR6	PR10	PR14	PR18	PR22
6:00	PR3	PR7	PR11	PR15	PR19	PR23
7:00	PR4	PR8	PR12	PR16	PR20	PR24

FIG. 15

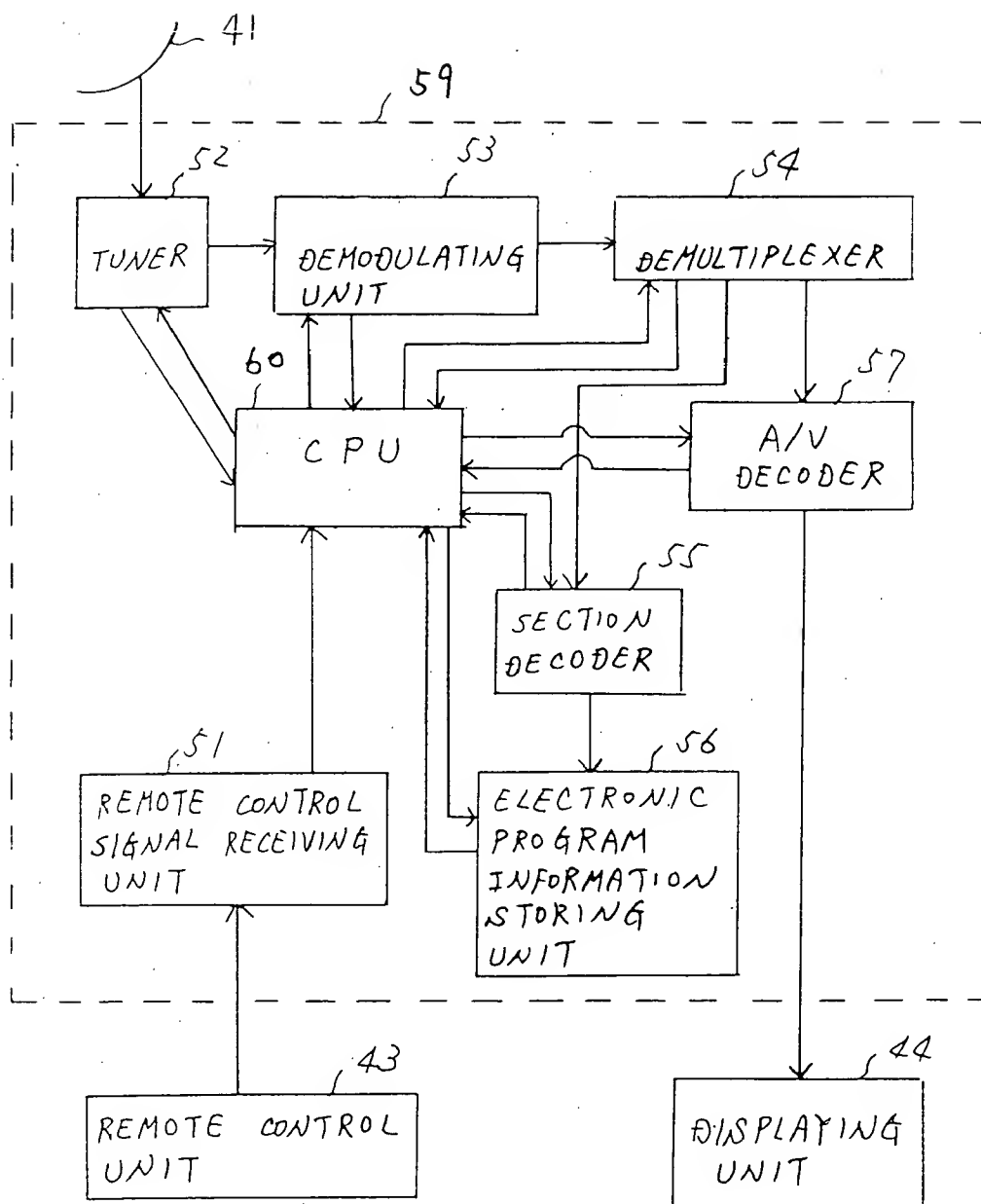


FIG. 16

BOUQUET ASSOCIATION TABLE (BAT)

BOUQUET ID	B5		
BOUQUET NAME	Sb1		
TS ID	TS20		
SERVICE ID	ST1	ST2	ST3
DEFAULT SELECTION FLAG	ON	OFF	OFF

BOUQUET ID	B6					
BOUQUET NAME	Sb2					
TS ID	TS30			TS40		
SERVICE ID	ST4	ST5	ST6	ST7	ST8	ST9
DEFAULT SELECTION FLAG	ON	OFF	OFF	OFF	OFF	OFF

FIG. 17

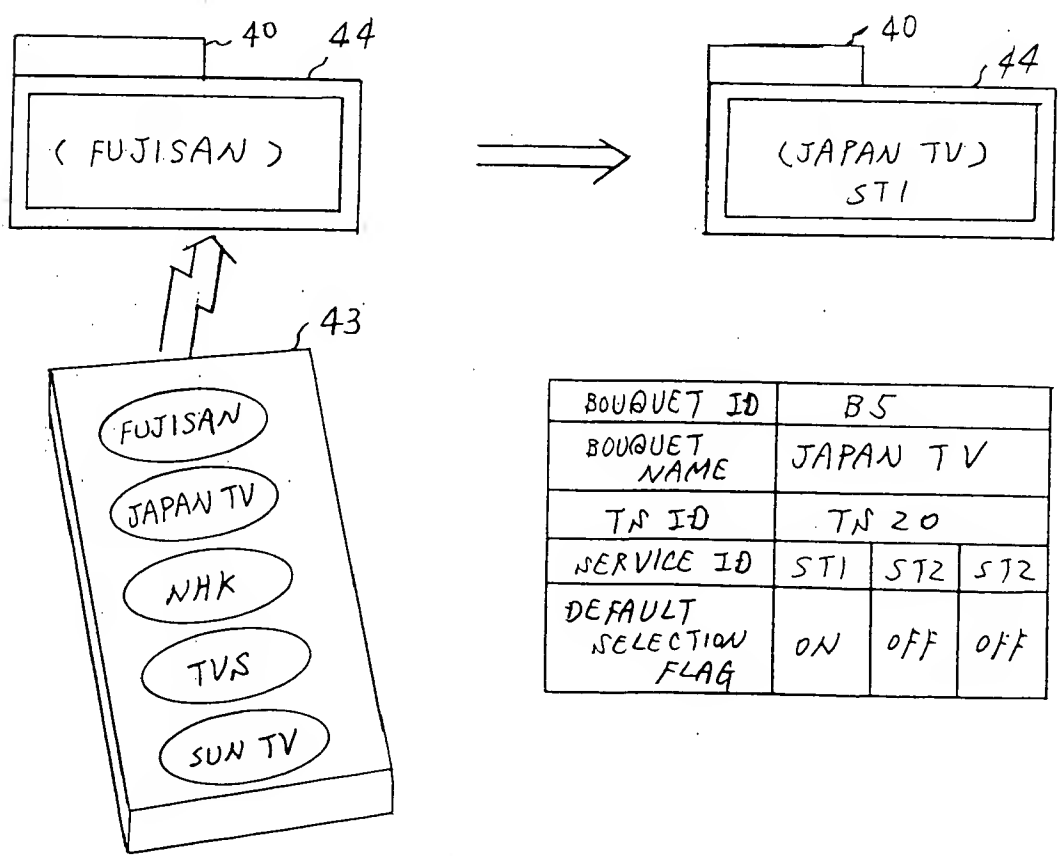


FIG. 18

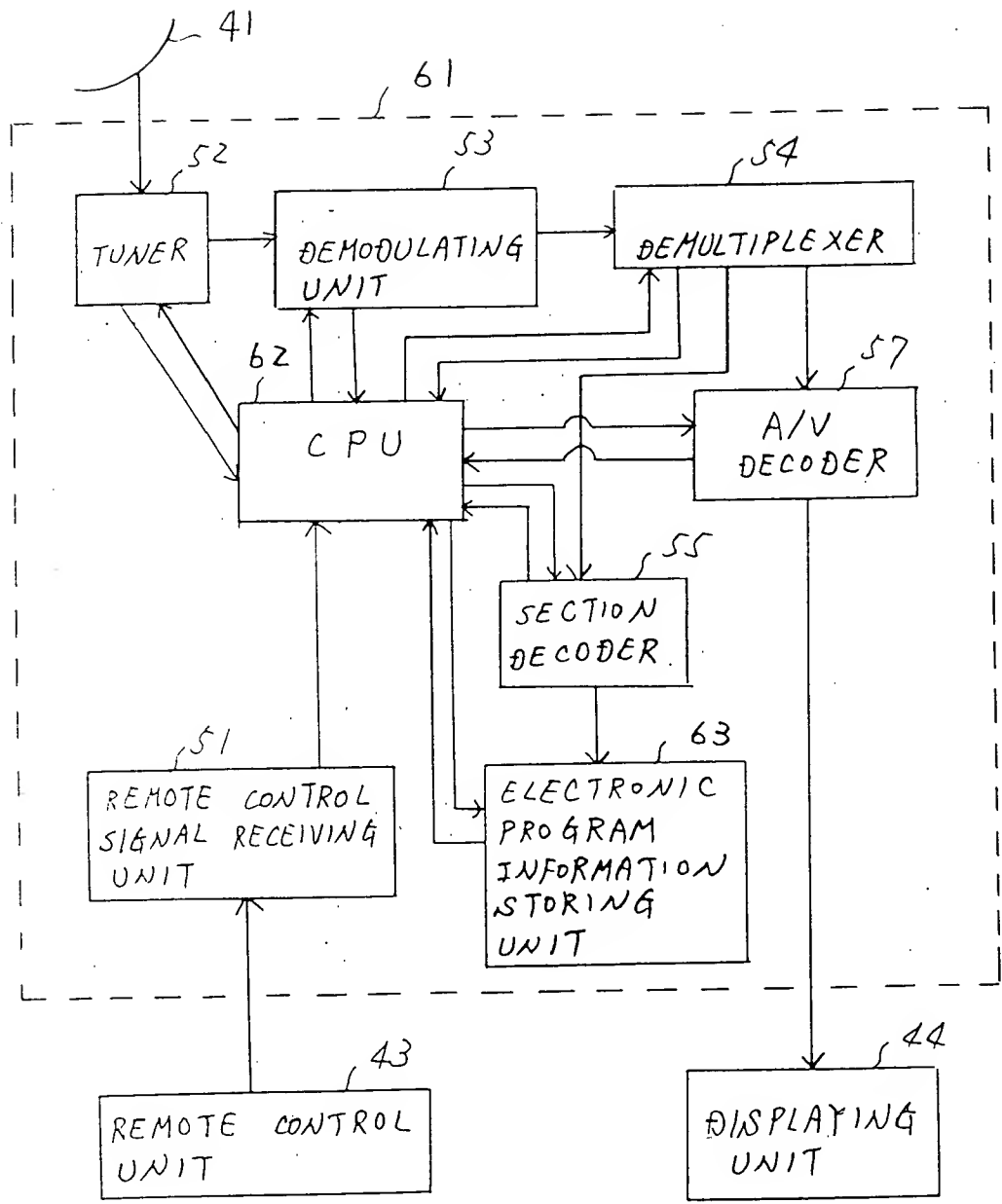


FIG. 19

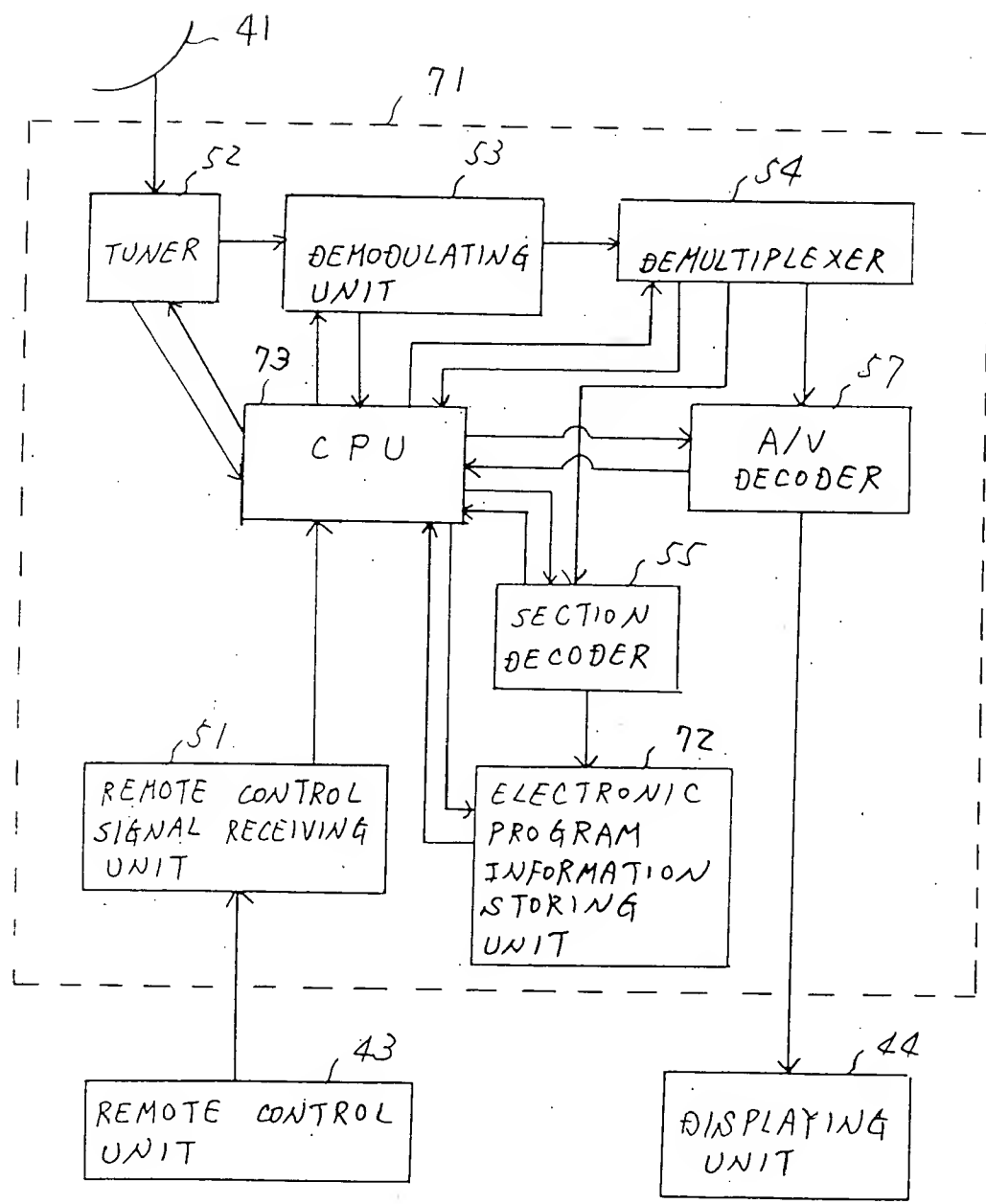


FIG. 20

EIT

SERVICE ID	ST6				
TS ID	TS30				
EVENT ID	TP30	TP35	TP40	TP42	TP89
TITLE			↑ ↑		
BROADCASTING START DATE AND TIME			↓ ↓		
DURATION OF BROADCAST			↓ ↓		
EVENT LINK INFORMATION			↓ ↓		

SERVICE ID	ST7				
TS ID	TS30				
EVENT ID	TP50	TP51	TP52	TP53	TP54
TITLE				↓	
BROADCASTING START DATE AND TIME				↓	
DURATION OF BROADCAST				↓	
EVENT LINK INFORMATION			ST6 TS30 TP40	↓	

SERVICE ID	ST8				
TS ID	TS30				
EVENT ID	TP60	TP61	TP62	TP63	TP64
TITLE				↓	
BROADCASTING START DATE AND TIME				↓	
DURATION OF BROADCAST				↓	
EVENT LINK INFORMATION			ST6 TS30 TP40		



FIG. 21

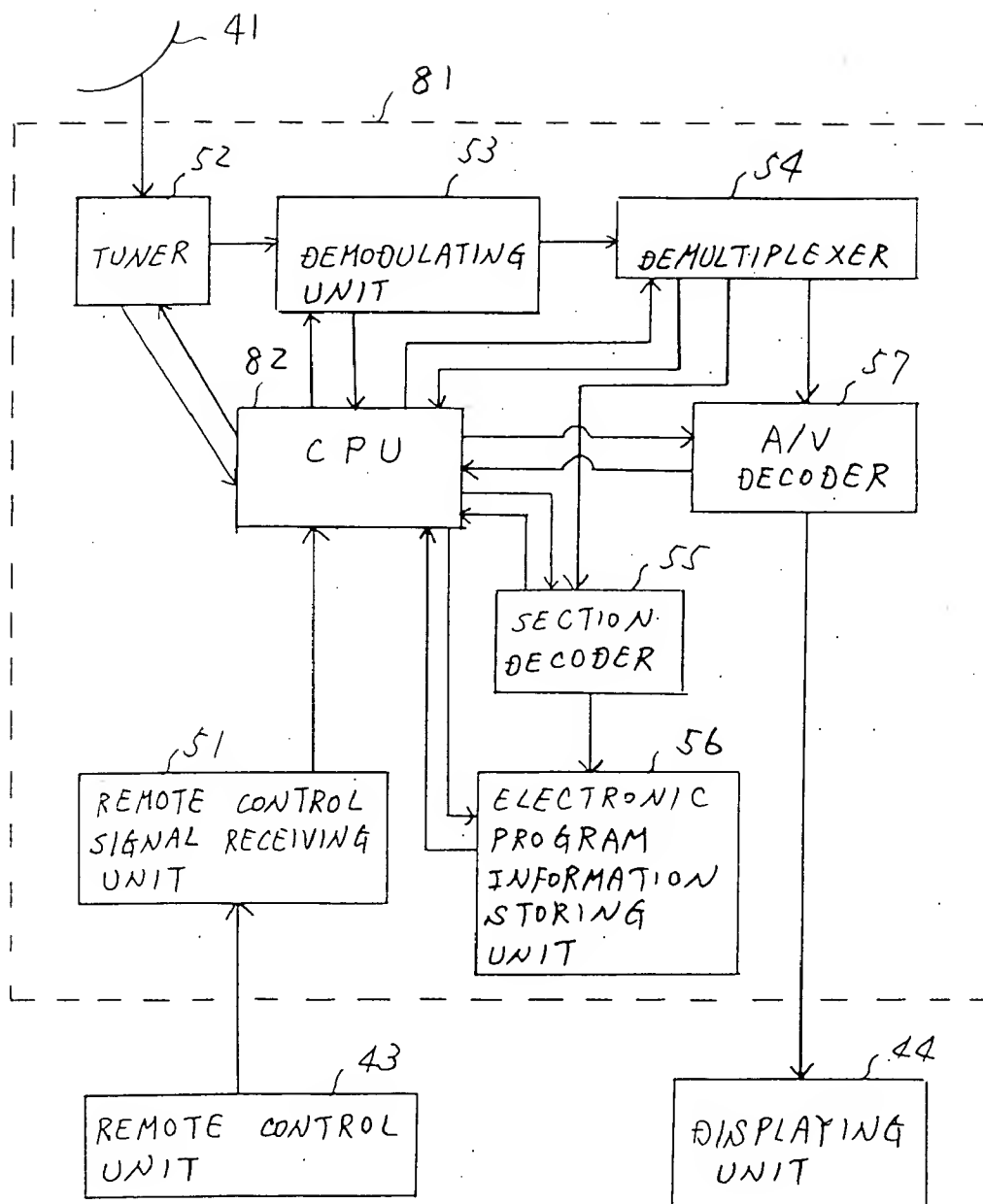


FIG. 22

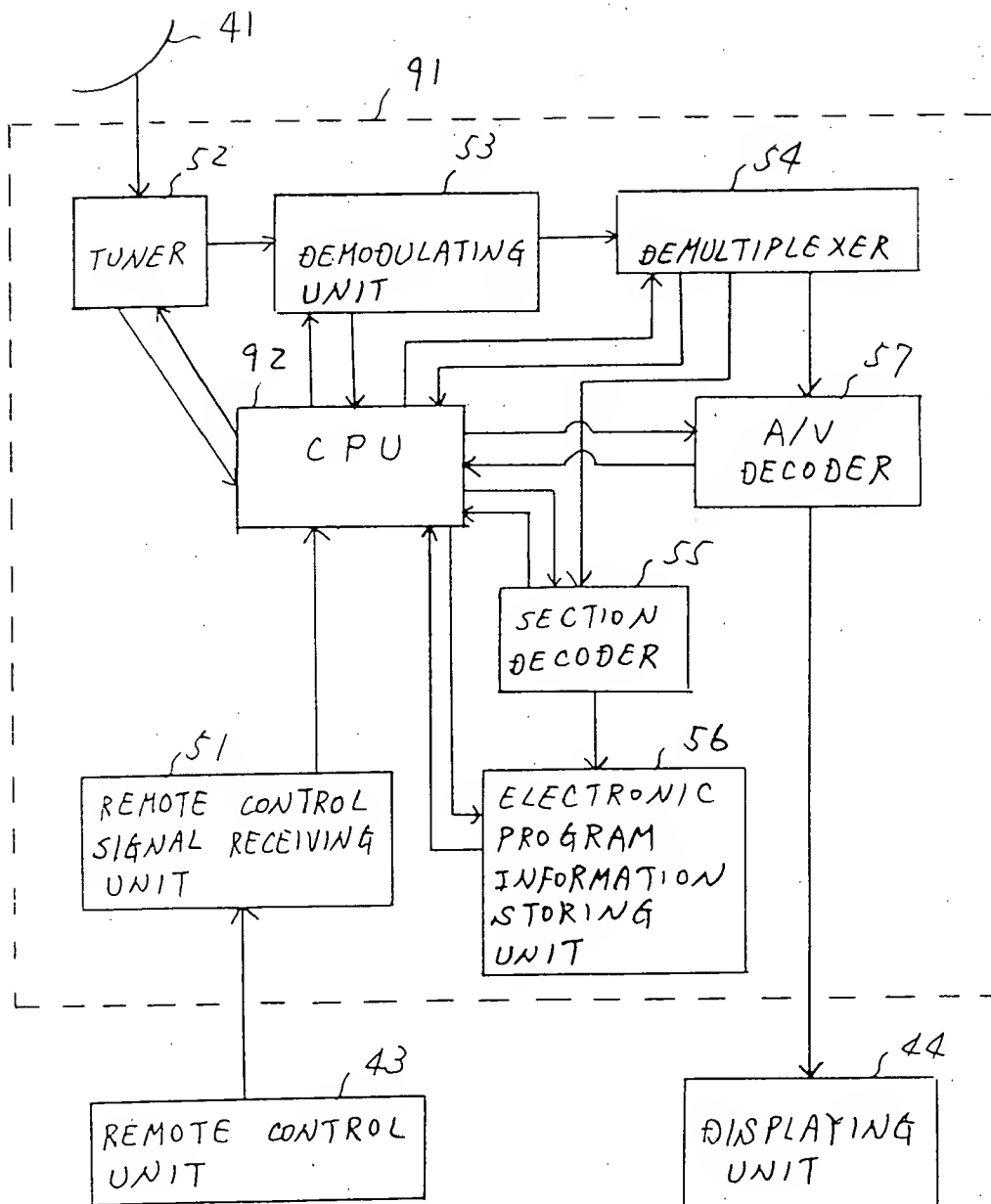


FIG. 23

TELEVISION CHANNEL	CH5	CH6	CH7	CH8
3:00	SDTV	SDTV	SDTV	SDTV
4:00		HDTV		
5:00				
6:00		DATA	DATA	MUSIC
7:00			SDTV	SDTV
8:00				

FIG. 25

TELEVISION CHANNEL	CH1	CH2	CH3	CH4
15:00	SDTV	SDTV	SDTV	SDTV
16:00	HDTV	HDTV		HDTV
17:00				MUSIC
18:00	SDTV	DATA		SDTV
19:00				
20:00				

FIG. 24

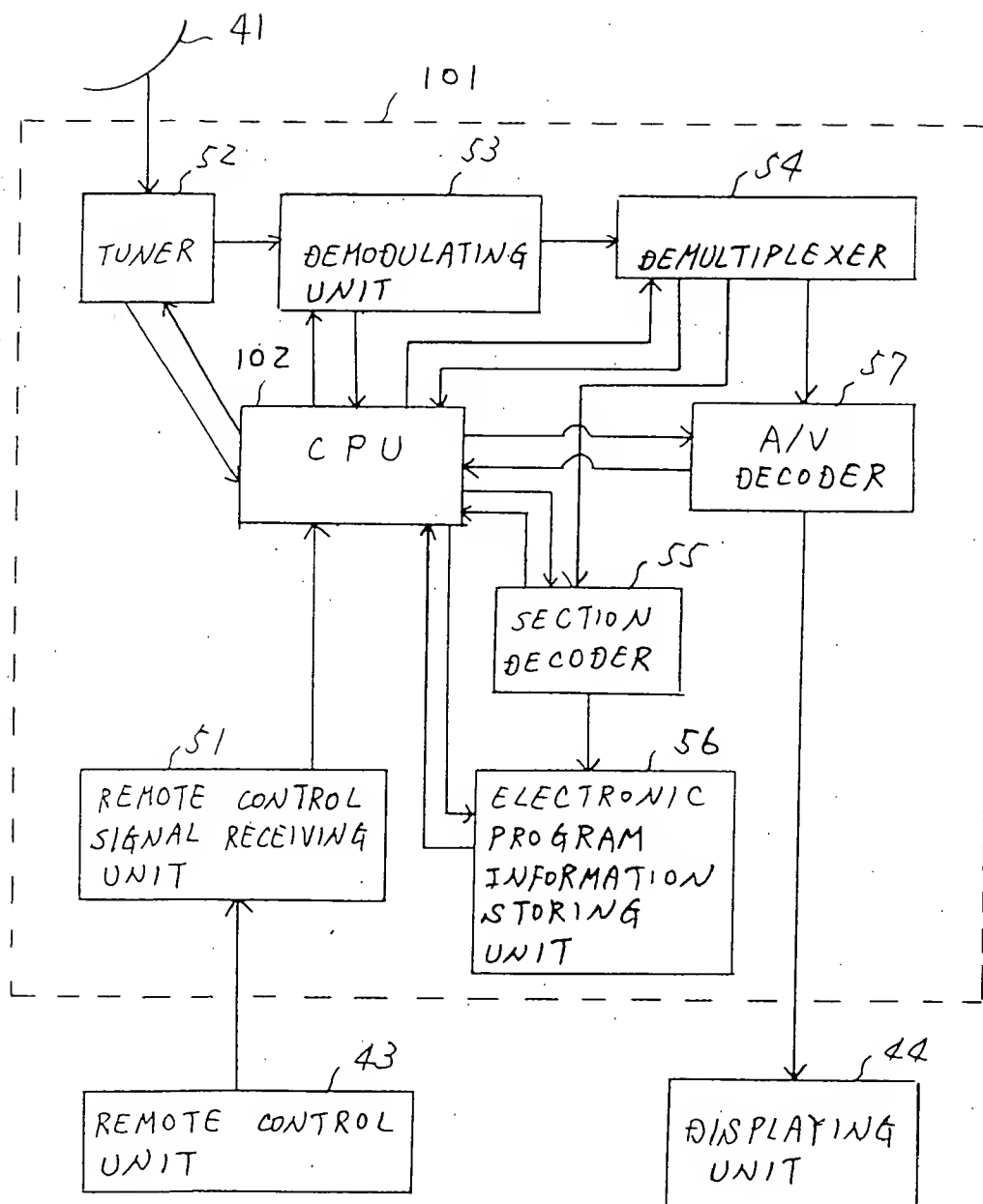


FIG. 26

EVENT INFORMATION TABLE (EIT)

SERVICE ID	ST4				
TS ID	TS30				
EVENT ID	TP30	TP35	TP40	TP42	TP89
TITLE	WEATHER	CYCLING	NEWS	VEGETABLES	GET UP!
BROADCASTING START DATE AND TIME	'97 11/14 4:00	'97 11/14 5:00	'97 11/14 6:00	'97 11/14 7:00	'97 11/14 8:00
DURATION OF BROADCAST	60	60	60	60	60
TRANSMISSION BANDWIDTH	5 Mbps	5 Mbps	18 Mbps	6 Mbps	4 Mbps

SERVICE ID	ST5				
TS ID	TS30				
EVENT ID	TP31	TP32	TP41	TP43	TP88
TITLE	WORLD NEWS	TRICYCLE	HELP!	WORLD WEATHER	LOCAL NEWS
BROADCASTING START DATE AND TIME	'97 11/14 4:00	'97 11/14 5:00	'97 11/14 6:00	'97 11/14 7:00	'97 11/14 8:00
DURATION OF BROADCAST	60	60	60	60	60
TRANSMISSION BANDWIDTH	18 Mbps	5 Mbps	9 Mbps	6 Mbps	6 Mbps

FIG. 27

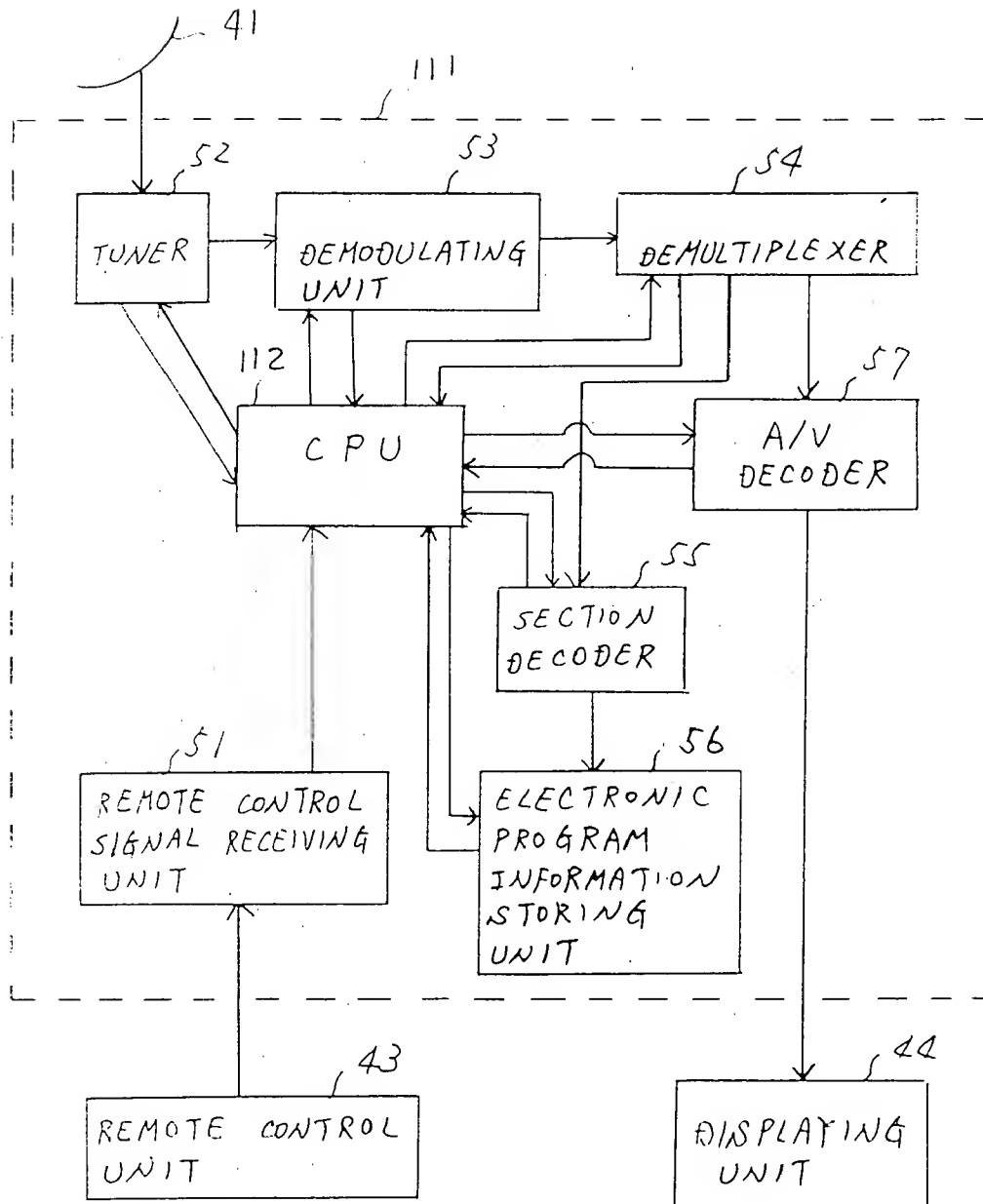


FIG. 28

4:00	WEATHER	WORLD NEWS	
5:00	CYCLING	TRICYCLE	
6:00	NEWS		HELP !
7:00	VEGETABLES	WORLD WEATHER	
8:00	GET UP!	LOCAL NEWS	

FIG. 29

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TODAY'S PROGRAM GUIDE				
	CH30	CH31	CH32	CH33
3:00	PR1	PR8	PR13	PR18
4:00	PR2	PR9		PR19
5:00	PR3			PR20
6:00	PR4		PR14	
7:00	PR5	PR10	PR15	
8:00	PR6	PR11	PR16	
9:00	PR7	PR12	PR17	

FIG. 30

SERVICE TYPE	DATA	MUSIC	SDTV	HDTV
DISPLAY WIDTH RATIO	1	1	5	15

FIG. 32

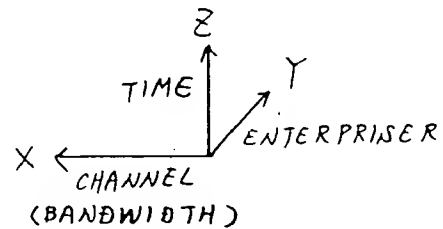
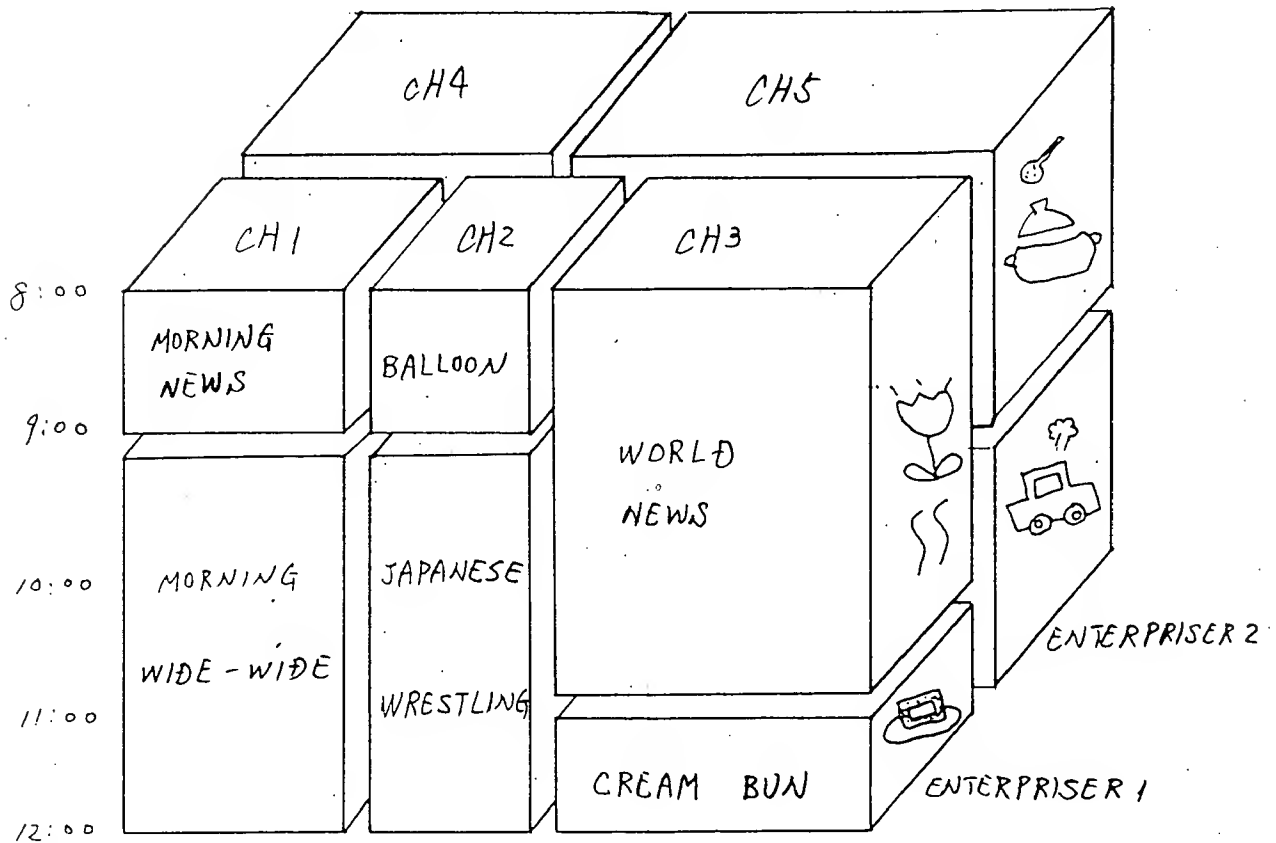




FIG. 31

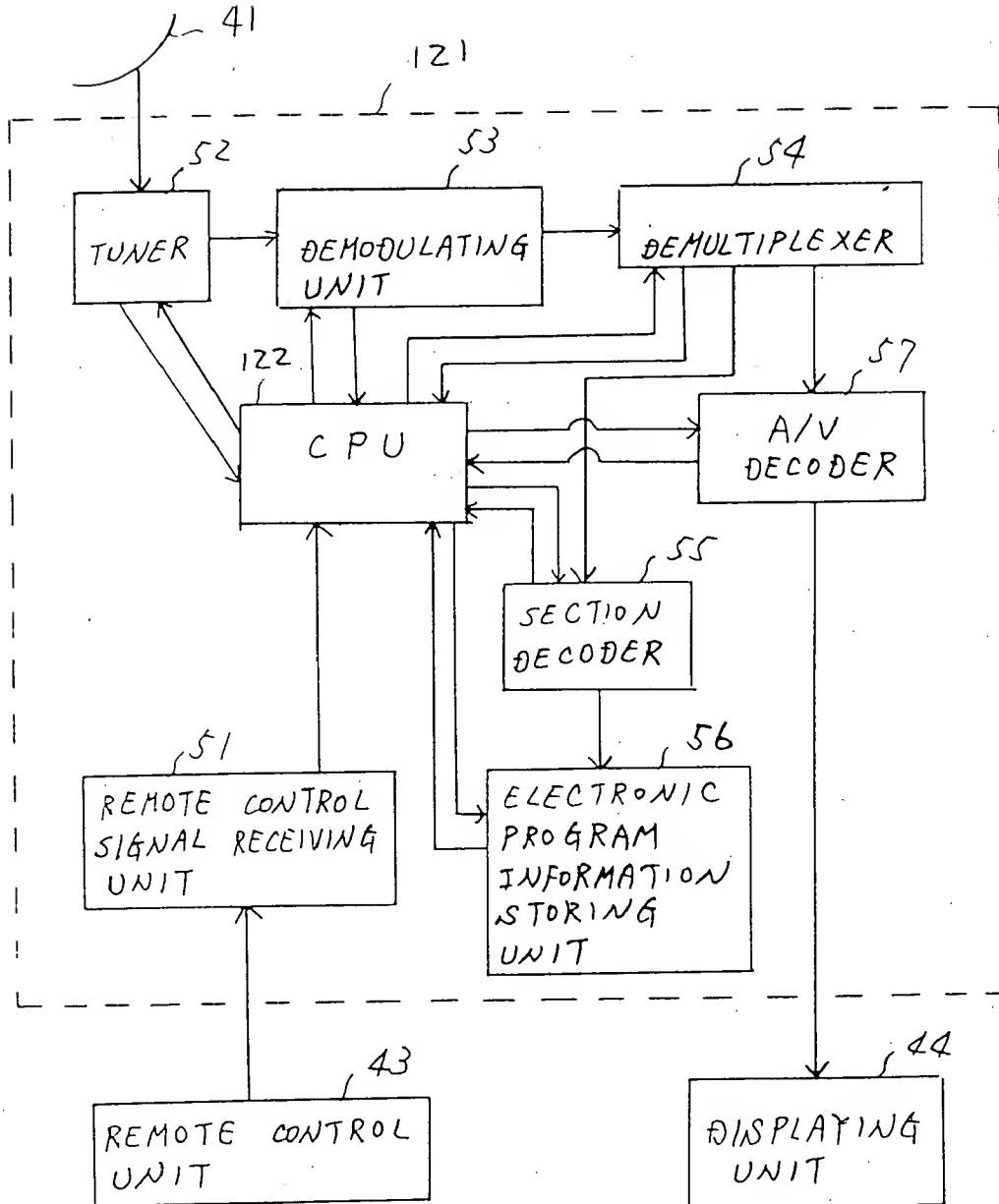


FIG. 33

ELECTRONIC PROGRAM GUIDE

	CH1	CH2	CH3	CH4	CH5
3:00	TP100	TP102	TP103	TP108	TP104
4:00	-----	TP105			SELECTION ROUTE
5:00	TP101	TP110	TP106	TP109	
6:00			TP107		TP111

FIG. 34

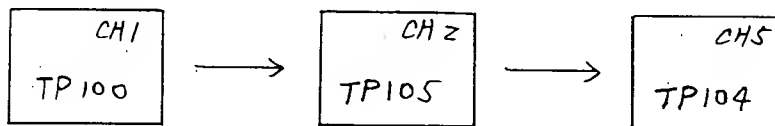


FIG. 36

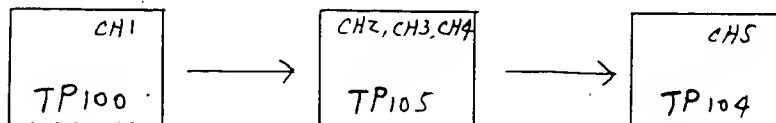


FIG. 35

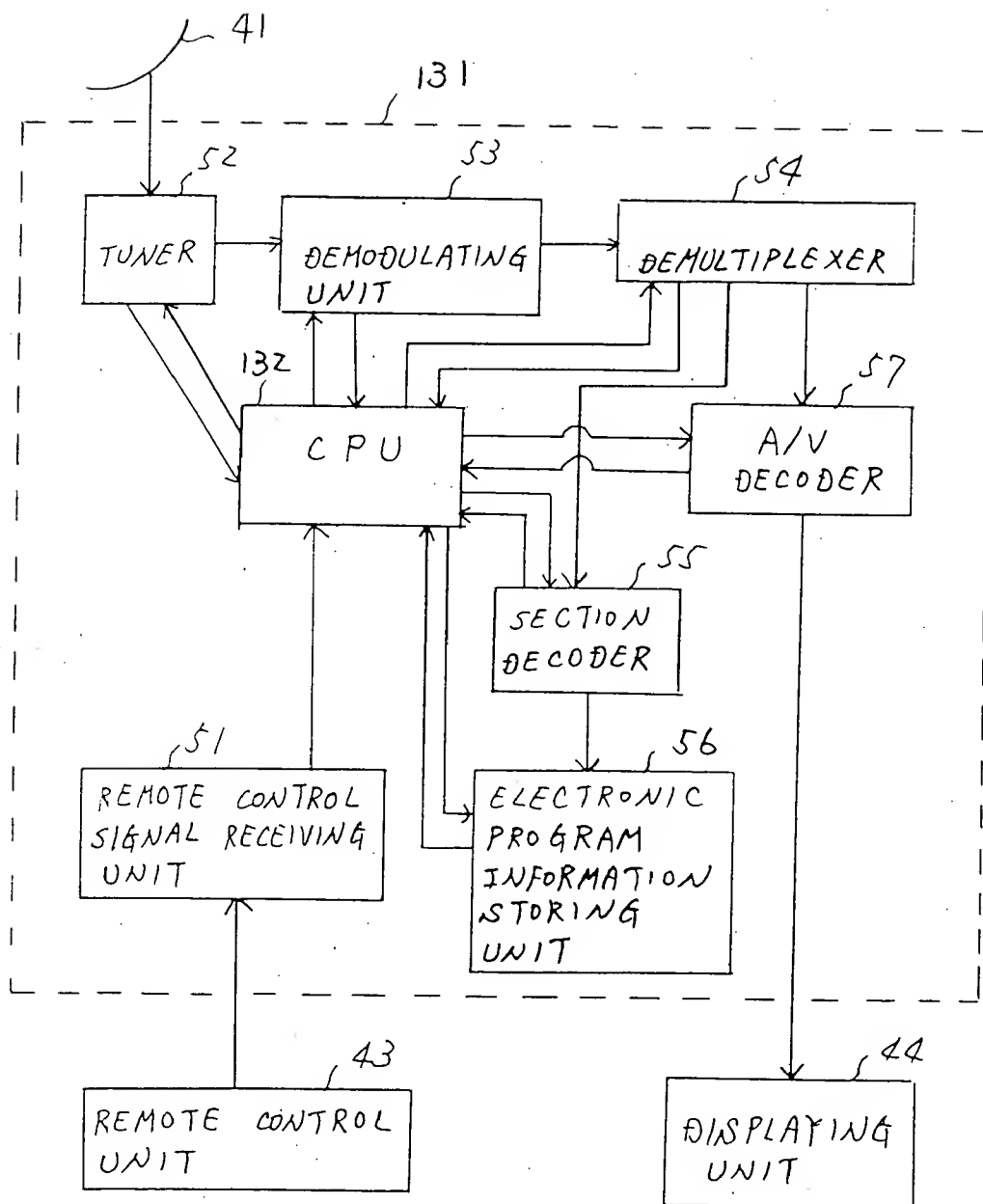


FIG. 37

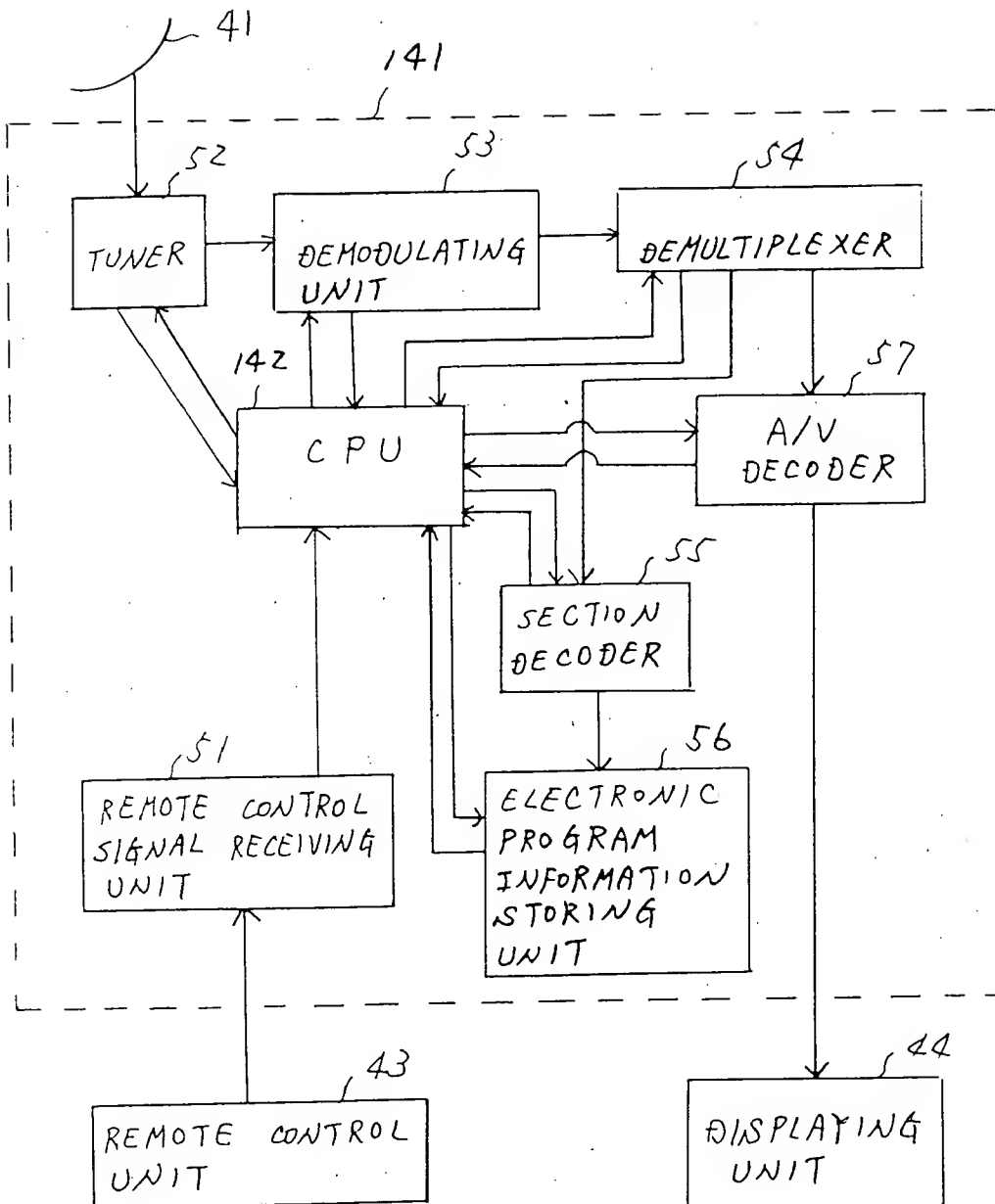


FIG. 38

CHANNEL SERVICE ID	ST101	ST103	ST900	ST901	ST902	ST903
SERVICE TYPE	SDTV	MUSIC	MUSIC	MUSIC	MUSIC	MUSIC

↑  
SUB-CHANNEL SERVICES  
OF ST103

FIG. 39

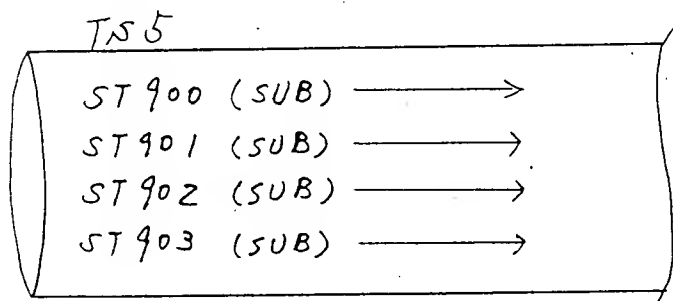
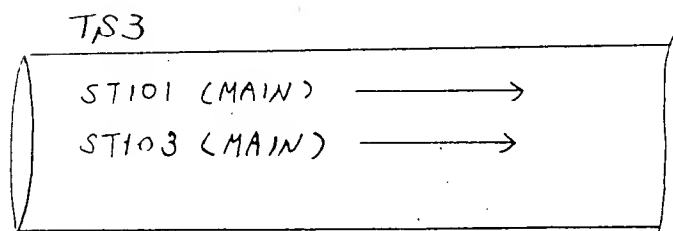


FIG. 40

SDT	TS3	
TS ID	ST101	ST103
SERVICE ID	ST101	ST103
SERVICE NAME	WEATHER!	MC
SERVICE TYPE	SDTV	MUSIC
MAIN / SUB	MAIN	MAIN
REFERENTIAL SERVICE	—	ST900 ~ ST903
REFERENTIAL TS	—	TS5

FIG. 41

SDT

TS ID	TS3		TS5			
SERVICE ID	ST101	ST103	ST900	ST901	ST902	ST903
SERVICE NAME	WEATHER	M.C	MUSIC 1	MUSIC 2	MUSIC 3	MUSIC 4
SERVICE TYPE	SDTV	MUSIC	MUSIC	MUSIC	MUSIC	MUSIC
MAIN/SUB	MAIN	MAIN	SUB	SUB	SUB	SUB
REFERENTIAL SERVICE	—	ST900 ST903	ST103	ST103	ST103	ST103
REFERENTIAL TS	—	TS5	TS3			

FIG. 42

EIT

SERVICE ID	ST101					
TS ID	TS3					
EVENT ID	TP50	TP51	TP52	TP53	TP54	TP55
TITLE	TODAY'S WEATHER	TOMORROW WEATHER	WEATHER OF U.S.A	WEATHER OF JAPAN	WEATHER OF ASIA	WORLD WEATHER
BROADCASTING START TIME	10:00	11:00	12:00	12:30	13:00	13:30
DURATION OF BROADCAST	60	60	30	30	30	30

FIG. 43

EIT

SERVICE ID	ST103					
TS ID	TS3					
EVENT ID	TP3	TP4	TP5	TP6	TP7	TP8
TITLE	MUSIC A	MUSIC B	MUSIC C	MUSIC D	MUSIC E	MUSIC E
BROADCASTING START TIME	10:00	11:00	12:00	12:30	13:00	13:30
DURATION OF BROADCAST	60	60	30	30	30	30

FIG. 44

EIT

SERVICE ID	ST 900					
TS ID	TS 5					
EVENT ID	TP200	TP201	TP202	TP203	TP204	TP205
TITLE			MUSIC C			
BROADCASTING START TIME			12:00			
DURATION OF BROADCAST			30			

EIT

SERVICE ID	ST 901					
TS ID	TS 5					
EVENT ID	TP206	TP207	TP208	TP209	TP210	TP211
TITLE			MUSIC C			
BROADCASTING START TIME			12:00			
DURATION OF BROADCAST			30			

EIT

SERVICE ID	ST 902					
TS ID	TS 5					
EVENT ID	TP1000	TP1001	TP1002	TP1003	TP1004	TP1005
TITLE			MUSIC C			
BROADCASTING START TIME			12:00			
DURATION OF BROADCAST			30			

EIT

SERVICE ID	ST 903					
TS ID	TS 5					
EVENT ID	TP1100	TP1101	TP1102	TP1103	TP1104	TP1105
TITLE			MUSIC C			
BROADCASTING START TIME			12:00			
DURATION OF BROADCAST			30			

FIG. 45

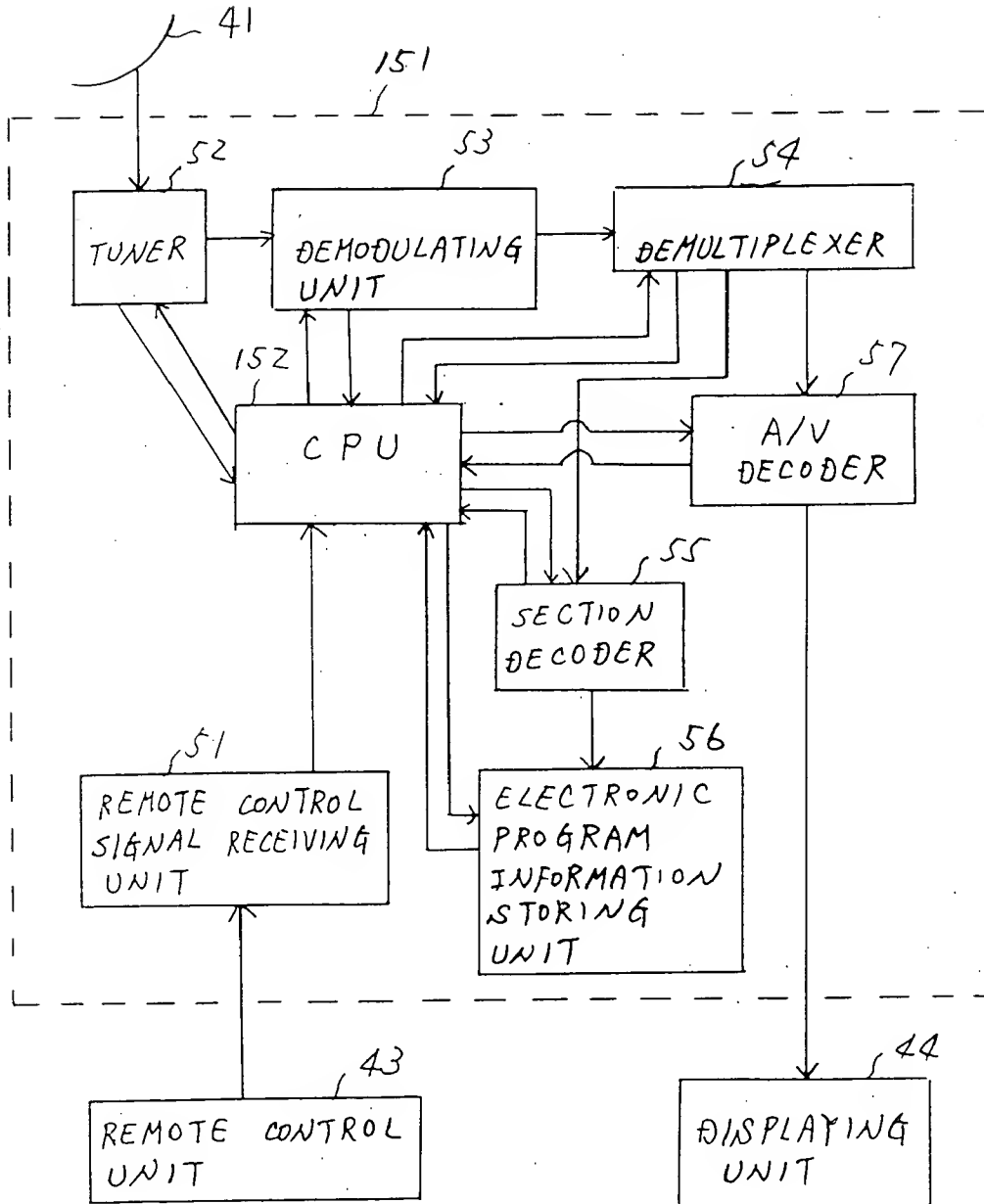
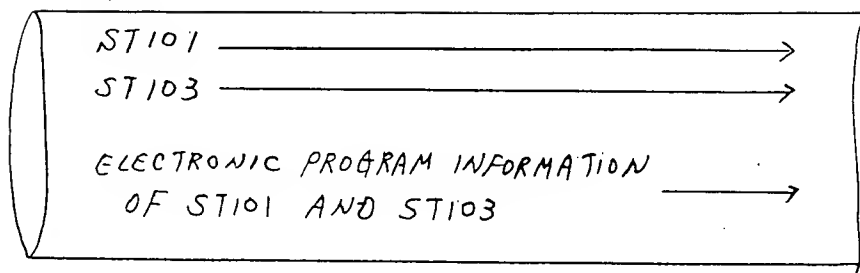




FIG. 46

TS3



TS5

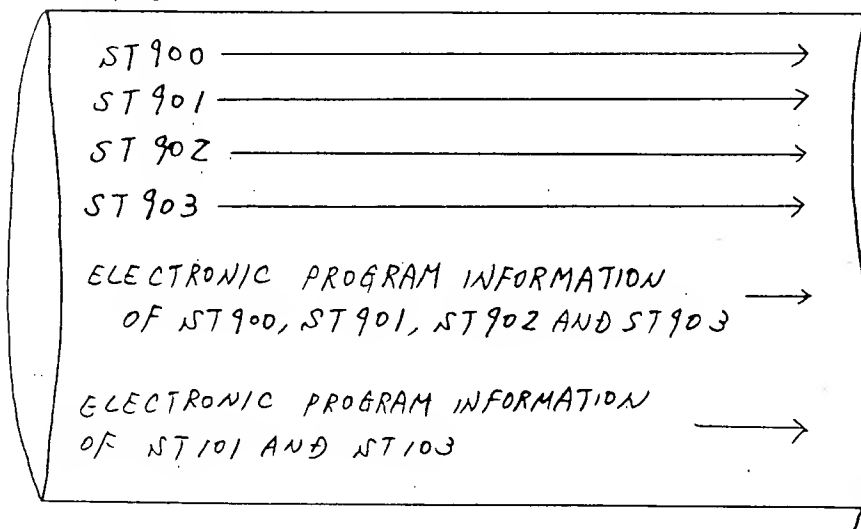


FIG. 47

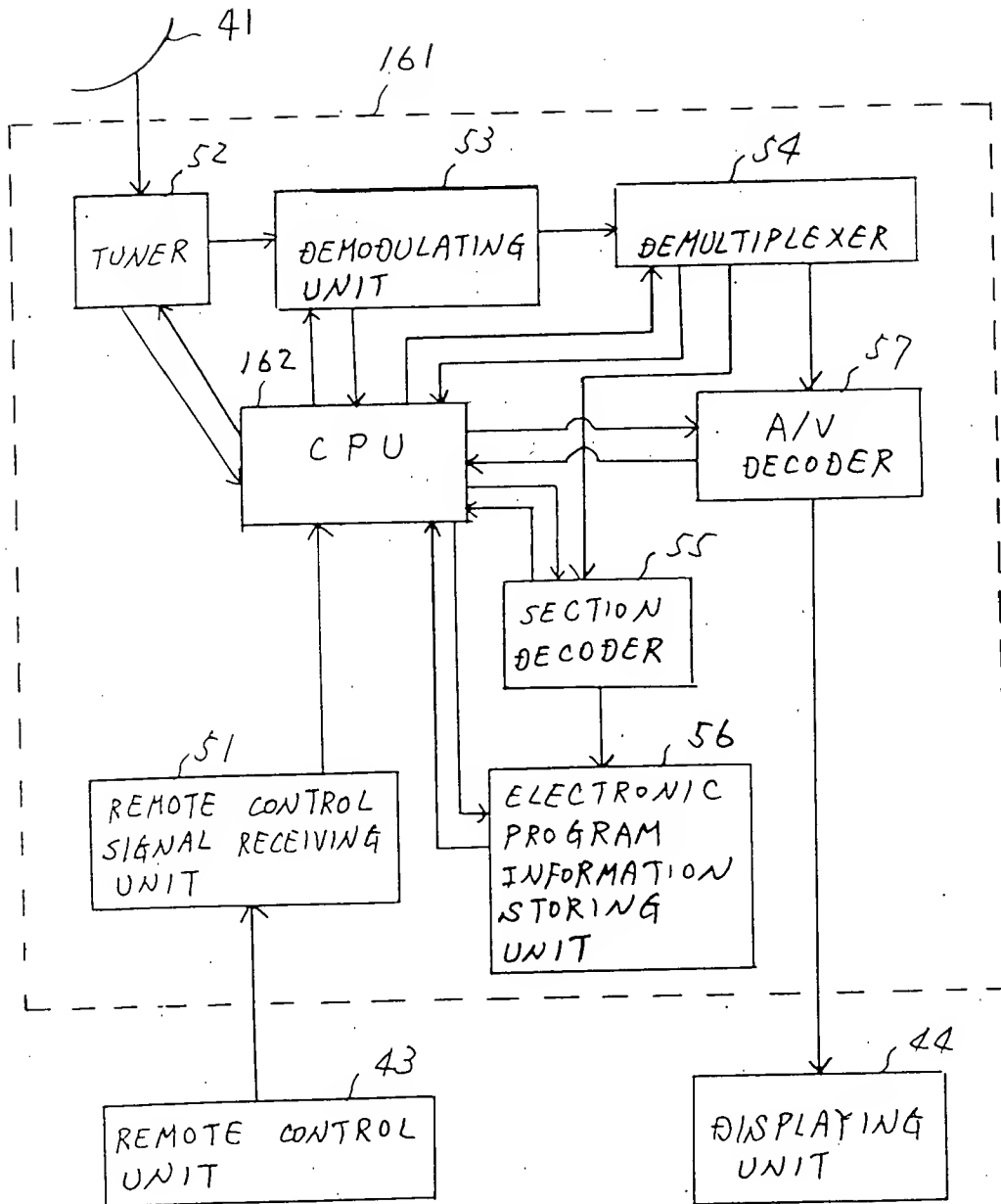


FIG. 48.

TS3

ST101 →

ST103 →

ELECTRONIC PROGRAM INFORMATION OF ST101, ST103, ST105 AND ST106 →

ELECTRONIC PROGRAM INFORMATION OF ST900, ST901, ST902, ST903, ST910 AND ST911 →

TS5

ST900 →

ST901 →

ST902 →

ST903 →

ELECTRONIC PROGRAM INFORMATION OF ST101, ST103, ST105 AND ST106 →

ELECTRONIC PROGRAM INFORMATION OF ST900, ST901, ST902, ST903, ST910 AND ST911 →

TS6

ST105 →

ELECTRONIC PROGRAM INFORMATION OF ST101, ST103, ST105 AND ST106 →

ELECTRONIC PROGRAM INFORMATION OF ST900, ST901, ST902, ST903, ST910 AND ST911 →

TS7

ST910 →

ST911 →

ELECTRONIC PROGRAM INFORMATION OF ST101, ST103, ST105 AND ST106 →

ELECTRONIC PROGRAM INFORMATION OF ST900, ST901, ST902, ST903, ST910 AND ST911 →

TS8

ST106 →

ELECTRONIC PROGRAM INFORMATION OF ST101, ST103, ST105 AND ST106 →

FIG. 49

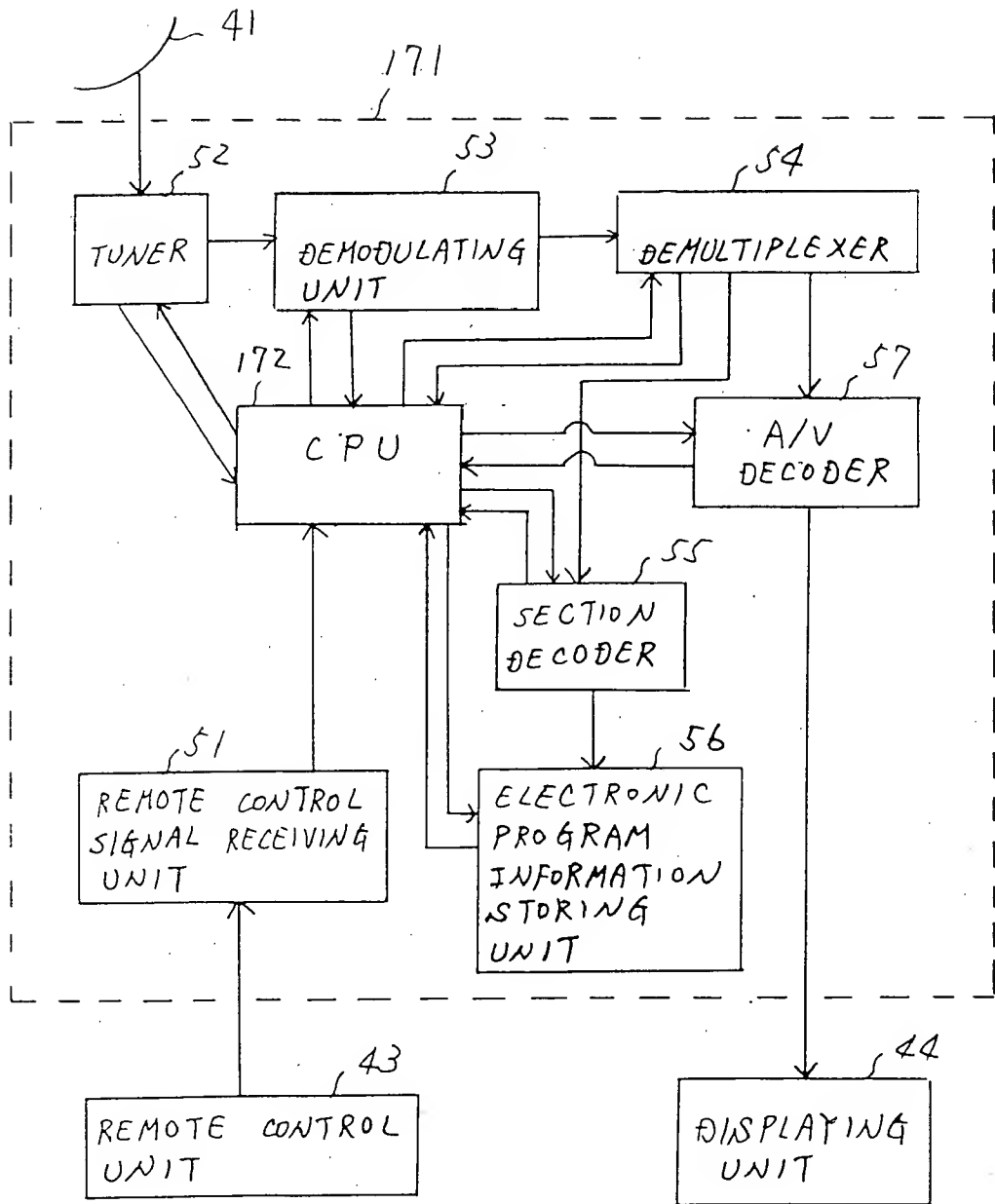


FIG. 50

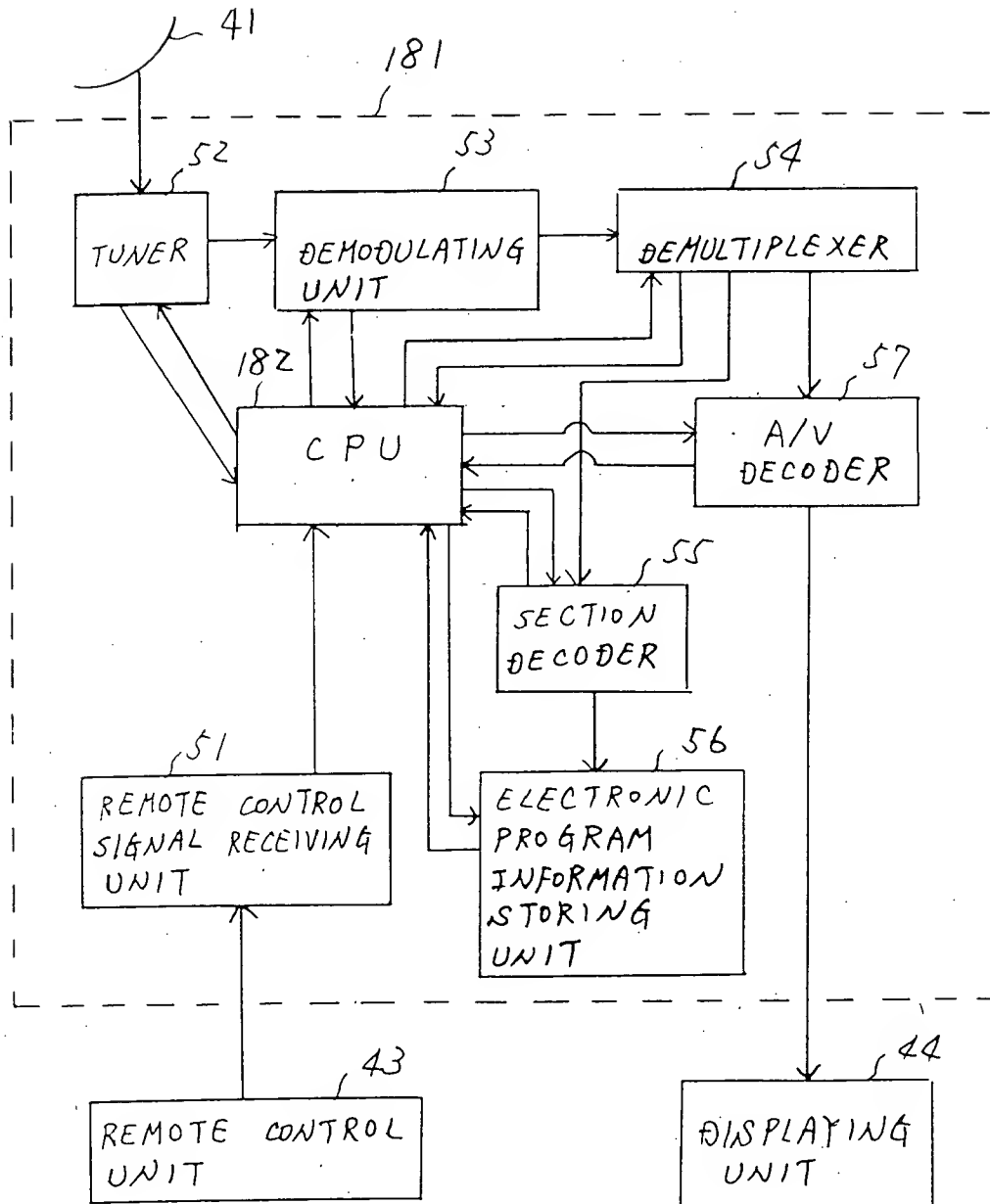


FIG. 51A

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TODAY'S PROGRAM GUIDE				
	CH30	CH31	CH32	CH33
3:00	PR1	PR8	PR13	PR18
4:00	PR2	PR9		PR19
5:00	PR3			PR20
6:00	PR4		PR14	
7:00	PR5	PR10	PR15	
8:00	PR6	PR11	PR16	
9:00	PR7	PR12	PR17	

FIG. 51B

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MUSIC CHANNELS						
	CH50	CH51	CH52	CH53	CH54	CH55
3:00	MUSIC 1	MUSIC 2	MUSIC 3	MUSIC 4	MUSIC 5	MUSIC 6
	CH56	CH57	CH58	CH59	CH60	CH61
3:00	MUSIC 7	MUSIC 8	MUSIC 9	MUSIC 10	MUSIC 11	MUSIC 12
	CH62	CH63	CH64	CH65	CH66	CH67
3:00	MUSIC 13	MUSIC 14	MUSIC 15	MUSIC 16	MUSIC 17	MUSIC 18
	CH68	CH69	CH70	CH71	CH72	CH73
3:00	MUSIC 19	MUSIC 20	MUSIC 21	MUSIC 22	MUSIC 23	MUSIC 24

BEFORE

NEXT

RETURN

FIG. 52

SDT

TS ID	TS3		TS5			
CHANNEL SERVICE ID	ST101	ST103	ST900	ST901	ST902	ST903
SERVICE NAME	WEATHER	MC	MUSIC 1	MUSIC 2	MUSIC 3	MUSIC 4
SERVICE TYPE	SDTV	MUSIC	MUSIC	MUSIC	MUSIC	MUSIC
MAIN/SUB	MAIN	MAIN	SUB	SUB	SUB	SUB
REFERENTIAL SERVICE	—	ST900 ST903	ST103	ST103	ST103	ST103
REFERENTIAL TS	—	TS5	TS3			
DEFAULT SUB-CHANNEL SERVICE SELECTING FLAG	—	—	ON	OFF	OFF	OFF

FIG. 54

SDT

TS ID		TS3		TS5			
CHANNEL SERVICE ID		ST101	ST103	ST900	ST901	ST902	ST903
SERVICE NAME		WEATHER	MC	MUSIC 1	MUSIC 2	MUSIC 3	MUSIC 4
SERVICE TYPE		SDTV	MUSIC	MUSIC	MUSIC	MUSIC	MUSIC
MAIN/SUB		MAIN	MAIN	SUB	SUB	SUB	SUB
REFERENTIAL SERVICE		—	ST900 ST903	ST103	ST103	ST103	ST103
REFERENTIAL TS		—	TS5	TS3			
VIEWER	AGE	—	—	19 OR MORE	1 TO 5	60 OR MORE	20 TO 30
ATTRI- BUTE	DISTRICT	—	—	JAPAN	JAPAN	EAST AREA	NORTH AREA

FIG. 53

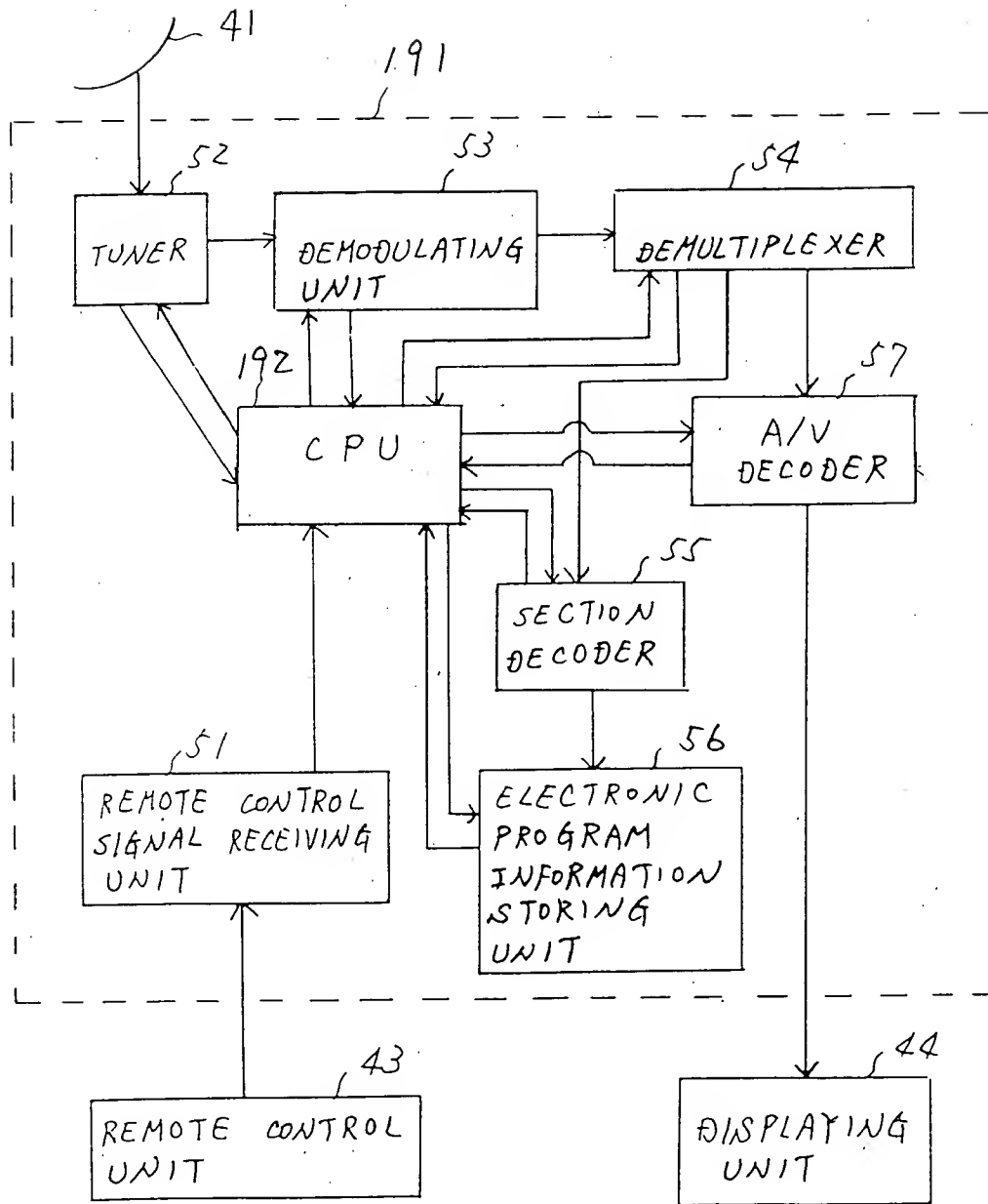




FIG. 55

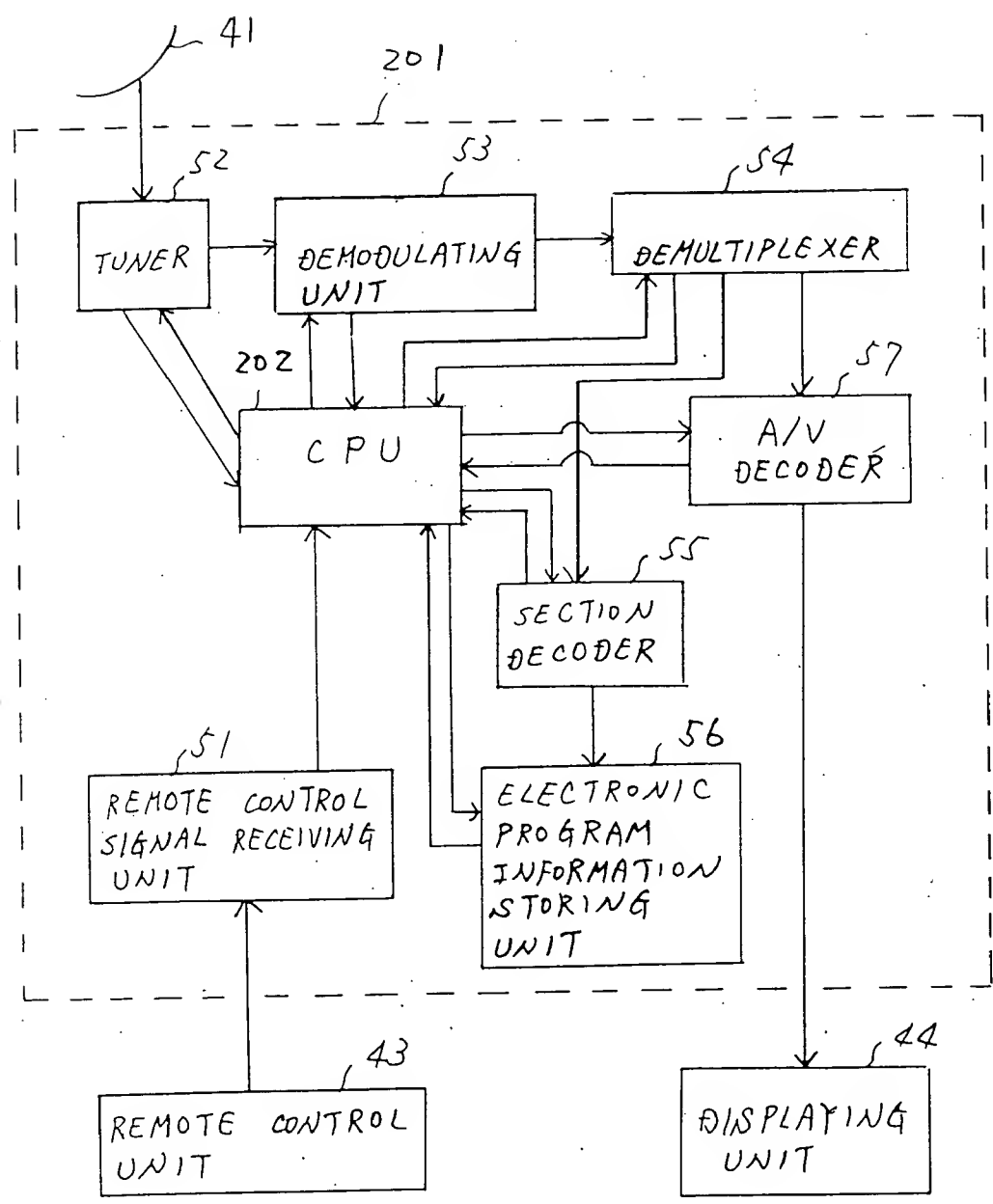


FIG. 56

SDT

TS ID	TS3		TS5			
CHANNEL SERVICE ID	ST101	ST103	ST900	ST901	ST902	ST903
SERVICE NAME	WEATHER	MC	MUSIC 1	MUSIC 2	MUSIC 3	MUSIC 4
SERVICE TYPE	SDTV	MUSIC	MUSIC	MUSIC	MUSIC	MUSIC
MAIN/SUB	MAIN	MAIN	SUB	SUB	SUB	SUB
REFERENTIAL SERVICE	—	ST900 ST903	ST103	ST103	ST103	ST103
REFERENTIAL TS	—	TS5	TS3			
GENRE	—	—	MOVIE	SPORTS	NEWS	NEWS

FIG. 57

